

Cabarrus County Sanitary Landfill – Unit 1

Semi-Annual Sampling Report Facility Permit # 13-02

(May 2016 Sampling Event)



Prepared July 2016

**CDM
Smith**

DENR USE ONLY: Paper Report Electronic Data - Email CD (data loaded: Yes / No)

Doc/Event #:

NC DENR

Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- Prepare one form for each individually monitored unit.
- Please type or print legibly.
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i)).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NC DENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Consultant - CDM Smith Inc.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Mathew F. Colone

Phone: 919-325-3500

E-mail: colonemf@cdmsmith.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Cabarrus County Landfill Unit 1	4441 Irish Potato Rd Concord, NC 28025	1302	.0500	May 16-17 and 19, 2016

Environmental Status: (Check all that apply)
 Initial/Background Monitoring Detection Monitoring Assessment Monitoring Corrective Action
Type of data submitted: (Check all that apply)
 Groundwater monitoring data from monitoring wells
 Groundwater monitoring data from private water supply wells
 Leachate monitoring data
 Surface water monitoring data

 Methane gas monitoring data
 Corrective action data (specify) _____
 Other(specify) _____
Notification attached?

- No. No groundwater or surface water standards were exceeded.
- Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Mathew F. Colone

Consultant

(919) 325-3500

Facility Representative Name (Print)

Title

7/12/2016

(Area Code) Telephone Number

Affix NC Licensed/Professional Geologist Seal

Signature

Date

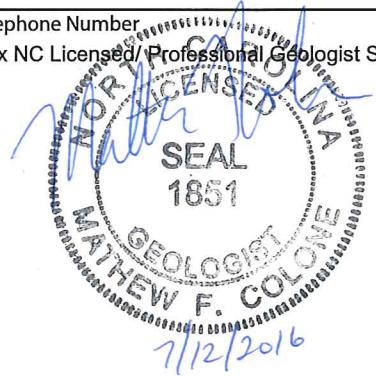
5400 Glenwood Ave, Suite 400, Raleigh, NC 27612

Facility Representative Address

F-0412

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009





5400 Glenwood Avenue, Suite 400
Raleigh, North Carolina 27612
tel: 919 325-3500
fax: 919 781-5730

July 12, 2016

Ms. Jaclynne Drummond
North Carolina Department of Environmental Quality
Division of Waste Management
Solid Waste Section
2090 U.S. 70 Highway
Swannanoa, North Carolina 28778

Subject: May 2016 Semi-Annual Sampling Report
Cabarrus County Unit 1 Landfill
Facility Permit No. 13-02

Dear Ms. Drummond:

CDM Smith Inc., on behalf of Cabarrus County, is submitting an electronic copy of the May 2016 semi-annual sampling report for the recent event completed at the Cabarrus County Unit 1 Landfill. This letter report constitutes the first semi-annual sampling event for 2016. The approved monitoring well network consists of compliance wells MW-5, -7, -8A, -10, -11, and background wells CD-1s and -1d. The monitoring network also includes surface water sample locations SW-1 and -2. Field activities and sampling results for the groundwater and surface water samples are discussed below.

Field Activities

Groundwater samples from the Cabarrus County Unit 1 Landfill were collected on May 16-17, 2016. Surface water samples were collected on May 19, 2016. Groundwater samples were collected from the monitoring wells by use of disposable, laboratory decontaminated Teflon™ bailers or a QED bladder pump system using low-flow sampling techniques. Monitoring well and surface water sample locations for the Unit 1 landfill are provided on **Figure 1**.

Groundwater elevations were measured at each well prior to sampling and are presented in **Table 1**. Well construction details for each monitoring well are also provided in Table 1. These groundwater elevations were used to construct potentiometric contours for this sampling event and are presented on Figure 1. After depth to groundwater was measured, each well was purged prior to sampling to provide fresh formation water within the well water column. Each purge volume was measured for pH, conductivity, turbidity, temperature, dissolved oxygen, and oxidation-reduction potential using a YSI-556 multi-parameter water quality meter and Oakton T100 or Lamotte 2020 turbidity meters. The water quality parameters at the time of sampling are presented in **Table 2**.

The headspace of each monitoring well was screened for methane gas using a RKI Eagle multi-gas monitor. Screening results are provided in **Appendix A**.



Ms. Jaclynne Drummond

July 12, 2016

Page 2

Sampling Results

Analytical Services, Inc., located in Norcross, Georgia, analyzed the groundwater and surface water samples for North Carolina Appendix I volatile organic compounds (VOCs) and metals. In accordance with the North Carolina Department of Environmental Quality's Solid Waste Section (SWS) guidelines the analytical results were reported to the laboratory specific method detection limit (MDL) and are quantifiable at or below SWS Limits (SWSLs). All monitoring wells for the Unit I landfill had detections of analytes above the MDL but below the SWSL. These detections were qualified as estimated or "J" flags.

The following list indicates the analytes detected above the laboratory specific MDL at each sampling location. No "J" flag or general chemistry detections are provided. Underlined analytes exceeded the 15A NCAC 02L .020 (NC 2L) Groundwater Quality Standard, Groundwater Protection Standard, or the 15A NCAC 02B (NC 2B) Surface Water Quality Standard for Class C Waters.

CD-1s (Background)

Metals: Iron
Volatile Organic Compounds: None Detected

CD-1d (Background)

Metals: Copper, Iron, Manganese, Vanadium, Zinc
Volatile Organic Compounds: None Detected

MW-5

Metals: Barium, Cobalt
Volatile Organic Compounds: Benzene, Chlorobenzene, 1,4-Dichlorobenzene

MW-7

Metals: Barium, Cadmium, Cobalt, Nickel, Zinc
Volatile Organic Compounds: Benzene, Chlorobenzene, 1,4-Dichlorobenzene

MW-8A

Metals: Zinc
Volatile Organic Compounds: None Detected

MW-10

Metals: Arsenic, Barium, Cobalt, Nickel
Volatile Organic Compounds: Benzene, Chlorobenzene, 1,4-Dichlorobenzene



Ms. Jaclynne Drummond

July 12, 2016

Page 3

MW-11

Metals: Barium, Cobalt, Zinc

Volatile Organic Compounds: Chlorobenzene, 1,4-Dichlorobenzene

SW-1

Metals: Barium, Beryllium, Chromium, Cobalt, Copper, Lead, Vanadium, Zinc

Volatile Organic Compounds: None Detected

SW-2

Metals: Chromium, Copper, Vanadium, Zinc

Volatile Organic Compounds: None Detected

"J" flags were not included in the previous list, but several locations had "J" flag detections that exceeded the standards. These constituents along with their location are listed below.

Cobalt: CD-1d, MW-8A, and SW-2

Lead: SW-2

Selenium: SW-1

Vanadium: CD-1s, MW-7, -10, and -11

No analytes were detected in the trip blank. The duplicate sample, identified as Dup, was collected from MW-7 and had similar analyte concentrations as those detected in MW-7. An equipment blank was not collected due to an oversight by the sampling team. Similar sampling equipment and supplies were used for the May 2016 sampling event compared to historical events. Historical analytical data has never shown impacts from sampling equipment or supplies.

Metals detected above the standards are likely natural occurring based on concentrations in the background monitoring wells or are from elevated turbidity at the time of sample collection. VOCs detected above the standards in several of the compliance monitoring wells will be compared to future detections to determine if any trends appear. A summary of detected constituents above the standards from the May 2016 sampling event is presented in **Table 3**. The laboratory analytical report is provided in Appendix A. The next semi-annual sampling event will be completed in the fall of 2016.





Ms. Jaclynne Drummond

July 12, 2016

Page 4

If you have any questions or require further explanation, do not hesitate to call me at (919) 325-3500 or by email at colonemf@cdmsmith.com.

Very truly yours,

A handwritten signature in blue ink that reads "Mathew F. Colone".

Mathew F. Colone, P.G.

CDM Smith Inc.

cc: Kevin Grant, Cabarrus County



Table 1
Monitoring Well Construction Summary and Groundwater Elevations
May 2016 Semi-Annual Sampling Event
Unit 1 - Cabarrus County Landfill

Facility Permit Number	Monitoring Well Code	Installation Date	Latitude	Longitude	Geology of Screened Interval	Total Depth (feet BTOC)	Depth (feet bgs)			Monitoring Well Diameter (inches)	Groundwater Elevations - Measured 5/16/2016		
							Screen Interval	Filter Interval	Seal Interval		Top of Casing Elevation	Depth to Groundwater (feet BTOC)	Groundwater Elevation
13-02	CD-1s (background well)	8/7/2006	35.47788	80.52334	Saprolite	29.53	18.0-28.0	16.0-28.0	14.0-16.0	2.0	755.00	23.90	731.10
13-02	CD-1d (background well)	7/21/2004	35.47788	80.52340	PWR	52.15	40.0-50.0	38.0-50.0	36.0-38.0	2.0	757.40	26.51	730.89
13-02	MW-5	Early 1990s	35.47226	80.52071	Saprolite/PWR	32.38	20.0-30.0	18.0-30.0	16.0-18.0	2.0	693.07	12.18	680.89
13-02	MW-7	Early 1990s	35.47301	80.51830	Saprolite/PWR	21.64	9.0-19.0	7.0-19.0	5.0-7.0	2.0	696.89	2.45	694.44
13-02	MW-8A	4/9/1996	35.47406	80.51707	Saprolite/PWR	25.29	13.0-23.0	11.0-23.0	9.0-11.0	2.0	713.34	6.87	706.47
13-02	MW-10	4/10/1996	35.47347	80.52062	Saprolite/PWR	35.10	23.0-33.0	21.0-33.0	19.0-21.0	2.0	700.71	8.96	691.75
13-02	MW-11	4/9/1996	35.47168	80.51899	Saprolite/PWR	25.26	13.0-23.0	11.0-23.0	9.0-11.0	2.0	684.52	6.68	677.84

Notes:

1. BTOC - Below Top of Casing
2. bgs - Below Ground Surface
3. PWR - Partially Weathered Rock

Table 2
Water Quality Measurements
May 2016 Semi-Annual Sampling Event
Unit 1 - Cabarrus County Landfill

Facility Permit Number	Monitoring Well Code	Water Quality Measurements					
		pH (S.U.)	Conductivity ($\mu\text{S}/\text{cm}$)	Temperature (degrees Celsius)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mVs)
13-02	CD-1s (background well)	5.91	103	15.7	4	3.45	244.7
13-02	CD-1d (background well)	6.06	115	15.8	20	4.50	210.3
13-02	MW-5	6.25	2,212	14.5	8	4.13	-15.6
13-02	MW-7	6.27	2,476	15.2	22	4.76	-18.3
13-02	MW-8A	6.33	682	15.1	6	2.14	-1.3
13-02	MW-10	6.57	2,161	15.6	25	3.35	-38.7
13-02	MW-11	5.98	472	14.2	3	3.30	24.2
Surface Water Sample Locations							
13-02	SW-1	6.99	342	15.4	>800	4.99	360.3
13-02	SW-2	6.80	241	15.6	590	3.51	181.3

Notes:

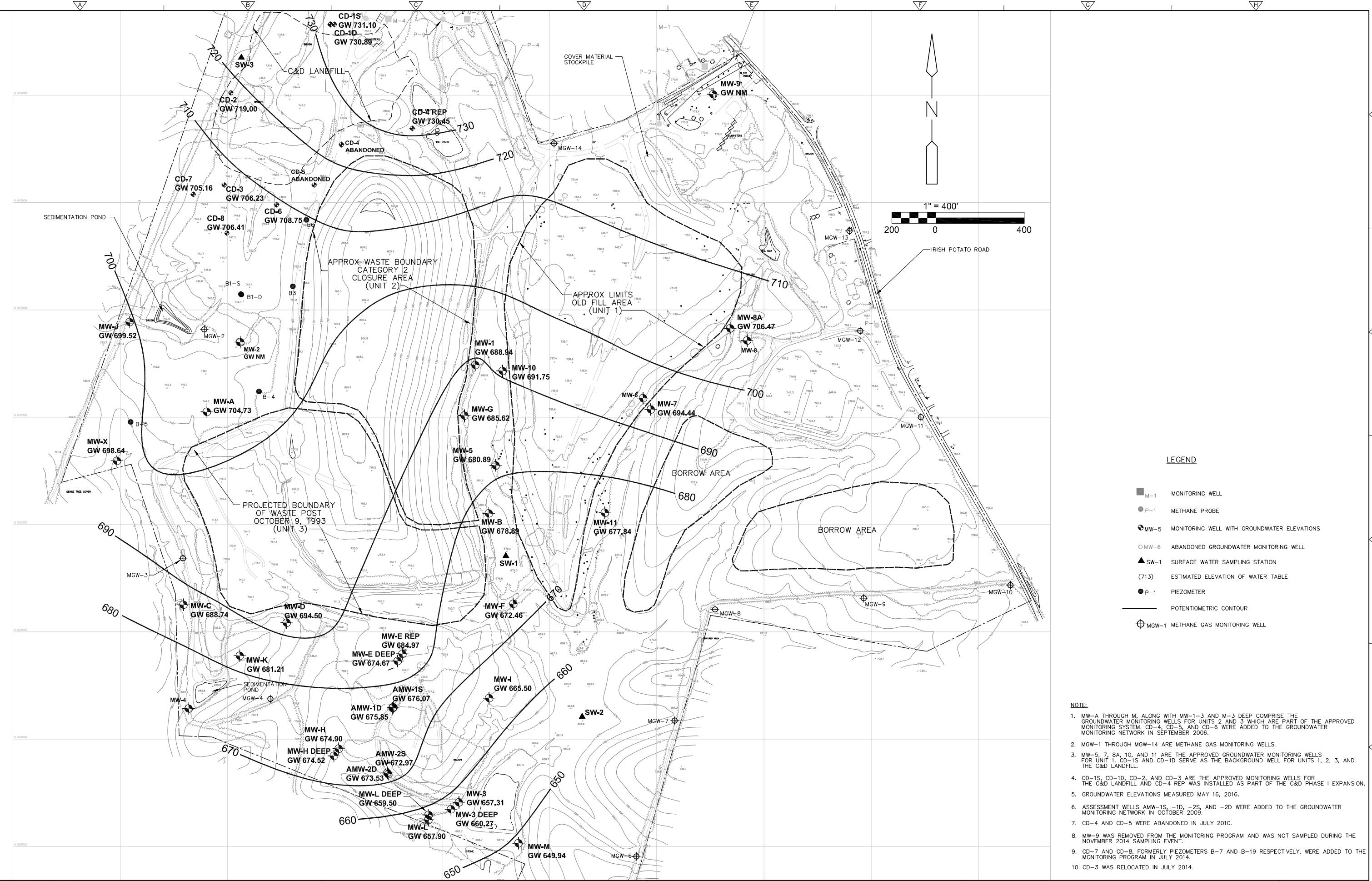
1. $\mu\text{S}/\text{cm}$ - Microsiemens per centimeter
2. mg/L - Milligrams per liter
3. ORP - Oxidation-Reduction Potential
4. NTUs - Nephelometric Turbidity Units
5. mVs - Millivolts
6. S.U. - Standard Units

Table 3
Constituents Detected Above Standards
May 2016 Semi-Annual Sampling Event
Unit 1 - Cabarrus County Landfill

Facility Permit Number	Monitoring Well Code	Constituents Above the North Carolina 2L or Groundwater Protection Standards	Estimated Constituents Above the North Carolina 2L or Groundwater Protection Standards
13-02	CD-1s (background well)	Iron	Vanadium*
13-02	CD-1d (background well)	Iron, Manganese, Vanadium*	Cobalt*
13-02	MW-5	Benzene, 1,4-Dichlorobenzene, Cobalt*	None Detected
13-02	MW-7	Benzene, 1,4-Dichlorobenzene, Cobalt*	Vanadium*
13-02	MW-8A	None Detected	Cobalt*
13-02	MW-10	Benzene, 1,4-Dichlorobenzene, Arsenic, Cobalt*, Nickel	Vanadium*
13-02	MW-11	Cobalt*	Vanadium*

Notes:

1. * Exceeds the Groundwater Protection Standard for Subtitle D Landfills closed after 1993.
2. Estimated detections above the standards are "J" flag detections that indicate the analytical result is between the method detection limit and the Solid Waste Section Reporting Limit.



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. WEISPFENNING
DRAWN BY: J. KILLINGSWORTH
SHEET CHK'D BY: D. FORBES
CROSS CHK'D BY: M. COLONE
APPROVED BY: D. FORBES
DATE: JUNE 2016

CDM Smith
CDM Smith Inc.
501 Glenwood Ave, Suite 400
Raleigh, NC 27612 Tel: (919) 325-3500
NC P-3412

CABARRUS COUNTY
NORTH CAROLINA
SEMI-ANNUAL GROUNDWATER MONITORING
CABARRUS COUNTY LANDFILL
FACILITY PERMIT #13-02

POTENTIOMETRIC SURFACE MAP

PROJECT NO. 1278-110485
FILE NAME: CAB-S-16.DWG
SHEET NO. 1

Appendix A

ANALYTICAL SERVICES, INC.
MONITORING WELL DATA SUMMARY

Client Name: Camp, Dresser, & McKee
Client Contact: Mr. Mat Colone
Project: Semi-annual Ground Water Monitoring
Site: Cabarrus Co. Landfill - Unit 1

ASI Report No.: AZE0544
Sampling Date: 5/16/16 - 5/19/16

Well ID	BOC ¹	DTW ²	Well Vol ³	Purge Vol ⁴	pH ⁵	SC ⁶	Temp ⁷	Turb ⁸	DO ⁹	ORP ¹⁰	Comments
1302-MW-5	32.39	12.18	9.88	4.25	6.25	2212	14.5	8.18	4.13	-15.6	Cloudy; odor
1302-MW-7	21.76	2.45	9.44	9.50	6.27	2476	15.2	22	4.76	-18.3	Cloudy; odor
1302-MW-8A	25.32	6.87	9.00	7.50	6.33	682	15.1	6.41	2.14	-1.3	Cloudy; no odor
1302-MW-10	35.36	8.96	12.90	8.50	6.57	2161	15.6	25	3.35	-38.7	Cloudy; odor
1302-MW-11	25.33	6.68	9.11	9.25	5.98	472	14.2	2.80	3.30	24.2	Cloudy; no odor
1302-CD-1D	52.20	26.51	12.56	5.00 L	6.06	115	15.8	20	4.50	210.3	Slightly cloudy; no odor
1302-CD-1S	29.62	23.90	2.79	4.00 L	5.91	103	15.7	3.63	3.45	244.7	Clear; no odor
											Fe 2+ : 0.0 mg/l
											Fe 2+ : 0.0 mg/l

Notes:

- 1 BOC - Bottom of Casing (Ft.)
- 2 DTW - Depth to Water from Top of Casing (Ft.)
- 3 Well Vol - Calculated at 3 Times One Well Volume (Gal.)
- 4 Actual Volume Evacuated Prior to Sample Collection (Gal.)
- 5 pH - Reported in Standard Units
- 6 SC - Specific Conductance (uS/cm)
- 7 Temp - Temperature (°C)
- 8 Turb - Turbidity (NTU)
- 9 Dissolved Oxygen (mg/L)
- 10 ORP mV

Sampled By: M. Williams, R. Powe
 Field Specialist(s)

Reviewed By: Jonathan Dett
 Field Services Manager

**ANALYTICAL SERVICES, INC.
MONITORING WELL DATA SUMMARY**

Client Name: Camp, Dresser, & McKee
Client Contact: Mr. Mat Colone
Project: Semi-annual Ground Water Monitoring
Site: Cabarrus Co. Landfill - Unit 1

ASI Report No.: AZE0544

Sampling Date: 5/16/16

Well ID	DTW
1302-MW-5	12.18
1302-MW-7	2.45
1302-MW-8A	6.87
1302-MW-10	8.96
1302-MW-11	6.68
1302-CD-1S	23.90
1302-CD-1D	26.51

Note: _____

1 DTW - Depth to Water From Top of Casing (ft.)

Sampled By: R. Powe, M. Williams
Field Specialist(s)

Reviewed By: Nathan Scott
Field Services Manager

**ANALYTICAL SERVICES, INC.
MONITORING WELL DATA SUMMARY**

Client Name: Camp, Dresser, & McKee
Client Contact: Mr. Mat Colone
Project: Semi-annual Ground Water Monitoring
Site: Cabarrus Co. Landfill - Unit 1

ASI Report No.: AZE0544
Sampling Date: 5/16/16

Well ID	% Vol ¹
1302-MW-5	0
1302-MW-7	0
1302-MW-8A	0
1302-MW-10	0
1302-MW-11	0
1302-CD-1S	0
1302-CD-1D	0

Note: _____

1 % Vol - Volume of Methane Gas in Headspace

Sampled By: R. Powe, M. Williams
Field Specialist(s)

Reviewed By: Jonathan Scott
Field Services Manager

ANALYTICAL SERVICES, INC.
SURFACE WATER SAMPLING DATA SUMMARY

Client Name: Camp, Dresser, & McKee
Client Contact: Mr. Mat Colone
Project: Semi-annual Surface Water Monitoring
Site: Cabarrus Co. Landfill - Unit 1

ASI Report No.: AZE0544
Sampling Date: 5/19/16

Point ID	pH ¹	SC ²	Temp ³	Turb ⁴	DO ⁵	ORP ⁶	Comments
1302-SW-1	6.99	342	15.4	800+	4.99	360.3	Cloudy (orange); no odor; good flow
1302-SW-2	6.80	241	15.6	590	3.51	181.3	Cloudy (orange); no odor; good flow

Notes: _____

Sampled By: R. Powe
 Field Specialist(s)

- 1 pH - Reported in Standard Units
- 2 SC - Specific Conductance (uS/cm)
- 3 Temp - Temperature (°C)
- 4 Turb - Turbidity (NTU)
- 5 DO - Dissolved Oxygen (mg/L)
- 6 ORP - Oxidation/Reduction Potential (mV)

Reviewed By: 
 Field Services Manager

FIELD DATA INFORMATION LOG FOR GROUND-WATER SAMPLING

Client:	CAMP, DRESSER, & MCKEE, INC. - RALEIGH	Casing Diameter:	2"
Site Name:	CABARRUS CO. SANITARY LANDFILL UNIT	Casing Material:	PVC
Field Personnel:	RAY POWE MARSHALL WILLIAMS	Dedicated Pump:	No
Well ID #:	CD-15 C13021		
Date:	5/17/13		
Weather Conditions:	overcast	Method of Well Evacuation:	Grundfos/Bailer/Peristaltic/BP
Total Well Depth in feet (TWD) =	29.62	Method of Sample Collection:	Grundfos/Bailer/Peristaltic/BP
Depth to Ground Water in feet (DGW) =	23.90	Well Yield (subjective):	good
2" Well: 1 Casing Volume in gallons (CV) = LWC x 0.163 =	0.93	Sample Date and Time:	5/17/13 @ 0859
		PSI:	31
Standard Evacuation Volume (3 casing volumes) =	2.79	Recharge:	12
Total Volume of Water Removed (gallons):	4.00	Discharge:	3

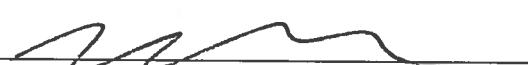
Time (military)	0819	0824	0829	0839	0844	0849	0854	0859	
Volume Purged (Gallons)	0	0.500	1.00	2.00	2.50	3.00	3.50	4.00	
Water Level (ft.)	stable 23.96	24.10	24.16	24.30	24.61	24.88	25.03	25.07	
pH (s.u.)	± .2 5.90	5.88	5.89	5.90	5.89	5.92	5.94	5.91	
Sp. Cond. (μmhos/cm)	± 10% 107	104	104	103	100	98	101	103	
Water Temp. (°C)	constant 16.2	15.8	15.8	15.7	15.7	15.7	15.7	15.7	
Turbidity (NTU)	± 10% or ≤ 5 NTU 4.81	4.62	5.03	5.17	4.76	3.65	3.51	3.63	
Dissolved Oxygen (mg/L)	± 10% 4.28	3.71	4.05	4.20	3.99	3.90	3.74	3.45	
RedOx Potential/ORP (mV)	± 10 mV 262.6	260.8	261.3	246.8	249.9	250.5	246.5	244.7	
GPM/HZ LPM	—	0.100	0.100	0.100	0.100	0.100	0.100	0.100	

COMMENTS/OBSERVATIONS: clear; no oil.

Diss. Ht startd @ 0819
sampled @ 0839

Fe2+ = 0.0 mg/L

Date: 5/17/13

By: 


Page 1 of 12

FIELD DATA INFORMATION LOG FOR GROUND-WATER SAMPLING

Client:	CAMP, DRESSER, & MCKEE, INC. - RALEIGH	Casing Diameter:	2"
Site Name:	CABARRUS CO. SANITARY LANDFILL UNIT	Casing Material:	PVC
Field Personnel:	RAY POWE MARSHALL WILLIAMS	Dedicated Pump:	No
Well ID #:	13025 CD-10		
Date:	5/17/18		
Weather Conditions:	overcast, heavy rain	Method of Well Evacuation:	Grundfos/Bailer/Peristaltic/BB
Total Well Depth in feet (TWD) =	52.30	Method of Sample Collection:	Grundfos/Bailer/Peristaltic/BB
Depth to Ground Water in feet (DGW) =	26.51	Well Yield (subjective):	good
2" Well: 1 Casing Volume in gallons (CV) = LWC x 0.163 =		Sample Date and Time:	5/17/18 @ 1014
Standard Evacuation Volume (3 casing volumes) =		PSI:	35
Total Volume of Water Removed (gallons):	5.00	Recharge:	12
	L	Discharge:	3

Time (military)	0940	0945	0948	0951	0954	1014	
Volume Purged (Gallons) L	0	1.00	1.60	2.20	2.80	5.00	
Water Level (ft.) stable	26.51	26.78	26.80	26.82	26.82	26.82	
pH (s.u.) $\pm .2$	6.08	6.08	6.12	6.09	6.09	6.06	
Sp. Cond. ($\mu\text{mhos/cm}$) $\pm 10\%$	11.8	11.5	11.5	11.7	11.7	11.5	
Water Temp. ($^{\circ}\text{C}$) constant	15.3	15.6	15.7	15.7	15.7	15.8	
Turbidity (NTU) $\pm 10\% \text{ or } \leq 5 \text{ NTU}$	5.93	8.42	11	12	18	20	
Dissolved Oxygen (mg/L) $\pm 10\%$	5.37	5.16	4.46	4.81	4.86	4.56	
Redox Potential/ORP (mV) $\pm 10 \text{ mV}$	205.2	215.1	214.7	214.2	214.8	210.3	
GPM/HZ LPM	—	0.200	0.200	0.200	0.200	0.200	

COMMENTS/OBSERVATIONS: slightly cloudy in after settled in tank

waited 20 min for turb to stabilize and sample

Fe2+ = 0.0 mg/L

Date: 5/17/18

By: 

PF
BB

FIELD DATA INFORMATION LOG FOR GROUND-WATER SAMPLING

Client:	CAMP, DRESSER, & MCKEE, INC. - RALEIGH	Casing Diameter:	2"
Site Name:	CABARRUS CO. SANITARY LANDFILL UNIT	Casing Material:	PVC
Field Personnel:	RAY POWE MARSHALL WILLIAMS	Dedicated Pump:	No
Well ID #:	1302 MW-5		
Date:	5/16/16		
Weather Conditions:	Clear, warm	Method of Well Evacuation:	Grundfos/Bailer/Peristaltic/BP
Total Well Depth in feet (TWD) =	32.39	Method of Sample Collection:	Grundfos/Bailer/Peristaltic/BP
Depth to Ground Water in feet (DGW) =	12.18	Well Yield (subjective):	Poor
2" Well: 1 Casing Volume in gallons (CV) = LWC x 0.163 =	3.29	Sample Date and Time:	5/16/16 @ 1550
Standard Evacuation Volume (3 casing volumes) =	9.88	PSI:	Metals 5/17/16 @ 1520
Total Volume of Water Removed (gallons):	DRY @ 4.25	Recharge:	
Discharge:			

Time (military)	1550	1554	1556	DRY			
Volume Purged (Gallons)	0	3.50	4.25				
Water Level (ft.)	stable	—	—	—			
pH (s.u.)	± .2	6.87	6.29	6.25			
Sp. Cond. (μmhos/cm)	± 10 %	918	1875	2212			
Water Temp. (°C)	constant	14.6	14.3	14.5			
Turbidity (NTU)	± 10 % or ≤ 5 NTU	25	800+	800+			
Dissolved Oxygen (mg/L)	± 10 %	5.62	4.48	4.13			
RedOx Potential/ORP (mV)	± 10 mV	-15.5	2.0	-15.6			
GPM/Hz		—	—	—			

COMMENTS/OBSERVATIONS: Cloudy, odor
Metals 5/17/16 @ 1520 NTV = 8.18

Fe2+ = — mg/L

Date: 5/17/16

By: Ray Powe

FIELD DATA INFORMATION LOG FOR GROUND-WATER SAMPLING

Client:	CAMP, DRESSER, & MCKEE, INC. - RALEIGH	Casing Diameter:	2"
Site Name:	CABARRUS CO. SANITARY LANDFILL UNIT	Casing Material:	PVC
Field Personnel:	RAY POWE MARSHALL WILLIAMS	Dedicated Pump:	No
Well ID #:	MW-7 1302		
Date:	5/16/16		
Weather Conditions:	Clear, mild	Method of Well Evacuation:	Grundfos Bailer/Peristaltic/BP
Total Well Depth in feet (TWD)	= 21.76	Method of Sample Collection:	Grundfos Bailer/Peristaltic/BP
Depth to Ground Water in feet (DGW)	= 2.45	Well Yield (subjective):	Good
2" Well: 1 Casing Volume in gallons (CV) = LWC x 0.163	= 3.15	Sample Date and Time:	5/16/16 @ 1524
		PSI:	Metals 5/17/16 @ 1504
Standard Evacuation Volume (3 casing volumes)	= 9.44	Recharge:	
Total Volume of Water Removed (gallons):	9.50	Discharge:	

Time (military)	1517	1519	1522	1524
Volume Purged (Gallons)	0	3.25	6.50	9.50
Water Level (ft.) stable	—	—	—	—
pH (s.u.) ± .2	6.17	6.32	6.37	6.27
Sp. Cond. (µmhos/cm) ± 10 %	3040	3056	2639	2476
Water Temp. (°C) constant	15.7	15.2	15.2	15.2
Turbidity (NTU) ±10 % or ≤ 5 NTU	540	800+	800+	800+
Dissolved Oxygen (mg/L) ±10 %	4.67	4.85	4.83	4.76
RedOx Potential/ORP (mV) ±10 mV	22.7	7.0	-11.7	-18.3
GPM/Hz	—	—	—	—

COMMENTS/OBSERVATIONS: Cloudy, odor
 Metals 5/17/16 @ 1504 NTU = 22 DUP 2 none

Fe2+ = mg/L

Date: 5/17/16

By: Ray Powe

Page 2 of 5

pol
S

FIELD DATA INFORMATION LOG FOR GROUND-WATER SAMPLING

Client:	CAMP, DRESSER, & MCKEE, INC. - RALEIGH	Casing Diameter:	2"
Site Name:	CABARRUS CO. SANITARY LANDFILL UNIT	Casing Material:	PVC
Field Personnel:	RAY POWE MARSHALL WILLIAMS	Dedicated Pump:	No
Well ID #:	MW-8A C1302		
Date:	5/16/16		
Weather Conditions:	Sunny, warm	Method of Well Evacuation:	Grundfos/Bailer/Peristaltic/BP
Total Well Depth in feet (TWD)	= 25.32	Method of Sample Collection:	Grundfos/Bailer/Peristaltic/BP
Depth to Ground Water in feet (DGW)	= 6.87	Well Yield (subjective):	1000 gpm
2" Well: 1 Casing Volume in gallons (CV) = LWC x 0.163 =	3.00	Sample Date and Time:	5/16/16 @ 15:06
Standard Evacuation Volume (3 casing volumes) =	9.00	PSI:	Metals 5/17/16 @ 1450
Total Volume of Water Removed (gallons):	7.50	Recharge:	NTU = 60.41
	1459	Discharge:	

Time (military)	1259 mn	1501	1504	1516	DRY		
Volume Purged (Gallons)	0	3.00	6.06	7.50			
Water Level (ft.)	stable	—	—	—			
pH (s.u.)	± .2	6.17	6.39	6.34	6.33		
Sp. Cond. (µmhos/cm)	± 10 %	706	702	684	682		
Water Temp. (°C)	constant	17.7	15.4	15.0	15.1		
Turbidity (NTU)	± 10 % or ≤ 5 NTU	800+	800+	82	79		
Dissolved Oxygen (mg/L)	± 10 %	2.86	3.34	2.02	2.14		
Redox Potential/ORP (mV)	± 10 mV	-24.0	-1.8	-1.4	-1.3		
GPM/Hz	—	—	—	—			

COMMENTS/OBSERVATIONS: cloudy; no odor

Fe2+ = ~ mg/L ~

Date: 5/17/16

By:

Ray Powe

FIELD DATA INFORMATION LOG FOR GROUND-WATER SAMPLING

Client:	CAMP, DRESSER, & MCKEE, INC. - RALEIGH	Casing Diameter:	2"
Site Name:	CABARRUS CO. SANITARY LANDFILL UNIT	Casing Material:	PVC
Field Personnel:	RAY POWE MARSHALL WILLIAMS	Dedicated Pump:	No
Well ID #:	MW-10 1302		
Date:	5/16/16.		
Weather Conditions:	Sunny warm	Method of Well Evacuation:	Grundfos/Baile r /Peristaltic/BP
Total Well Depth in feet (TWD) =	35.36	Method of Sample Collection:	Grundfos/Baile r /Peristaltic/BP
Depth to Ground Water in feet (DGW) =	8.96	Well Yield (subjective):	12 gal
2" Well: 1 Casing Volume in gallons (CV) = LWC x 0.163 =	4.30	Sample Date and Time:	5-16-16 @ 1542
Standard Evacuation Volume (3 casing volumes) =	12.90	PSI:	100 Methyl 5/17/16 @ 1510
Total Volume of Water Removed (gallons):	DRY@8.50	Recharge:	NTU - 25
Discharge:			

Time (military)	1533	1538	1542	DRY			
Volume Purged (Gallons)	0	4.50	8.50				
Water Level (ft.) stable	—	—	—				
pH (s.u.) ± .2	6.35	6.56	6.57				
Sp. Cond. (µmhos/cm) ± 10 %	2101	2168	2161				
Water Temp. (°C) constant	15.2	15.3	15.6				
Turbidity (NTU) ± 10 % or ≤ 5 NTU	20	26	29				
Dissolved Oxygen (mg/L) ± 10 %	3.11	3.70	3.35				
Redox Potential/ORP (mV) ± 10 mV	-45.3	-42.7	-38.7				
GPM/Hz	—	—	—				

COMMENTS/OBSERVATIONS: cloudy; older

Fe2+ = mg/L

Date: 5/17/16

By:

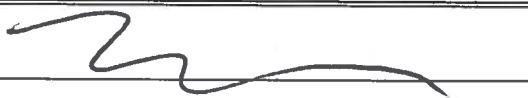
FIELD DATA INFORMATION LOG FOR GROUND-WATER SAMPLING

Client:	CAMP, DRESSER, & MCKEE, INC. - RALEIGH	Casing Diameter:	2"
Site Name:	CABARRUS CO. SANITARY LANDFILL UNIT	Casing Material:	PVC
Field Personnel:	RAY POWE MARSHALL WILLIAMS	Dedicated Pump:	No
Well ID #:	B02 Mn-11		
Date:	5/16/16		
Weather Conditions:	sunny/mild	Method of Well Evacuation:	Grundfos/Bailer/Peristaltic/BP
Total Well Depth in feet (TWD)	25.3	Method of Sample Collection:	Grundfos/Bailer/Peristaltic/BP
Depth to Ground Water in feet (DGW)	6.68	Well Yield (subjective):	good
2" Well: 1 Casing Volume in gallons (CV) = LWC x 0.163 =	3.43	Sample Date and Time:	5/16/16 at 1612
Standard Evacuation Volume (3 casing volumes) =	9.11	PSI:	mechs 5/17/17 at 1528
Total Volume of Water Removed (gallons):	9.28	Recharge:	NTU = 2.80
Discharge:			

Time (military)	1605	1607	1610	1612
Volume Purged (Gallons)	0	3.25	6.50	9.25
Water Level (ft.) stable	—	—	—	—
pH (s.u.) ± .2	6.71	6.32	6.18	5.98
Sp. Cond. (µmhos/cm) ± 10 %	467	404	474	472
Water Temp. (°C) constant	14.3	14.1	14.0	14.2
Turbidity (NTU) ± 10 % or ≤ 5 NTU	54	62	64	57
Dissolved Oxygen (mg/L) ± 10 %	2.84	3.28	3.04	3.30
RedOx Potential/ORP (mV) ± 10 mV	-1.5	8.2	-0.6	84.2
GPM/Hz	—	—	—	—

COMMENTS/OBSERVATIONS: cloudy; no odor

Fe2+ = — mg/L

Date: 5/17/16 By: 

Page 5 of 5 

FIELD INFORMATION LOG

Facility: Cabarrus LF (SA SWs) Unit 1

Sample Point ID: SW-1

Location: Concord, NC

Field Representatives: RP

Sample Matrix: Surfacewater

Weather: Rain

Time	pH (Std Units)	Conduct. (OS/cm)	Temp (°C)	Turbidity . (NTU's)	ORP (mV)	DO (mg/L)
0918	6.99	342	15.4	800+	300.3	4.99

ANALYTE COLLECTION ORDER, CONTAINERS, PRESERVATIVES AND TESTS PERFORMED:

NC App I VOC – 3 40mL VOA w/ HCL Metals – 1 500 mL HDPE w/ HNO3

COMMENTS AND OBSERVATIONS: Cloudy (orange); no odor, good flow

Facility: Cabarrus LF (SA SWs) Unit 1

Sample Point ID: SW-2

22 of 22

Location: Concord, NC

Field Representatives: RP

Sample Matrix: Surfacewater

Weather: Rain

Time	pH (Std Units)	Conduct. (OS/cm)	Temp (°C)	Turbidity . (NTU's)	ORP (mV)	DO (mg/L)
0911	6.80	241	15.6	590	181.3	3.51

ANALYTE COLLECTION ORDER, CONTAINERS, PRESERVATIVES AND TESTS PERFORMED:

NC App I VOC – 3 40mL VOA w/ HCL Metals – 1 500 mL HDPE w/ HNO3

COMMENTS AND OBSERVATIONS: Cloudy (orange); no odor, good flow

I certify that sampling procedures were in accordance with all applicable EPA and State protocols.

Date: 5/11/16

By:

Randy Price

Company: ASI

21 of 22

RP



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Report Number: AZE0544

Project: Cabarrus Co-Unit 1

Project #:[none]

Prepared For:

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh, NC 27612

Attention: Mr. Mat Colone

June 09, 2016

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call. Pace Analytical Services, Inc. certifies that the following analytical results meet all requirements of the National Environmental Laboratory Accreditation Conference(NELAC).All test results relate only to the samples analyzed.

Approved:

A handwritten signature in black ink, appearing to read "Betsy McDaniel".

Project Manager



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1302-CD1S	AZE0544-01	Ground Water	05/17/16 08:59	05/18/16 12:45
1302-CD1D	AZE0544-02	Ground Water	05/17/16 10:14	05/18/16 12:45
1302-MW5	AZE0544-03	Ground Water	05/16/16 15:56	05/18/16 12:45
1302-MW5	AZE0544-04	Ground Water	05/17/16 15:20	05/18/16 12:45
1302-MW7	AZE0544-05	Ground Water	05/16/16 15:24	05/18/16 12:45
1302-MW7	AZE0544-06	Ground Water	05/17/16 15:04	05/18/16 12:45
1302-MW8A	AZE0544-07	Ground Water	05/16/16 15:06	05/18/16 12:45
1302-MW8A	AZE0544-08	Ground Water	05/17/16 14:56	05/18/16 12:45
1302-MW10	AZE0544-09	Ground Water	05/16/16 15:42	05/18/16 12:45
1302-MW10	AZE0544-10	Ground Water	05/17/16 15:10	05/18/16 12:45
1302-MW11	AZE0544-11	Ground Water	05/16/16 16:12	05/18/16 12:45
1302-MW11	AZE0544-12	Ground Water	05/17/16 15:28	05/18/16 12:45
1302-Duplicate	AZE0544-13	Ground Water	05/16/16 00:00	05/18/16 12:45
1302-Duplicate	AZE0544-14	Ground Water	05/17/16 00:00	05/18/16 12:45
1302-SW1	AZE0544-15	Surface Water	05/19/16 09:18	05/19/16 15:05
1302-SW2	AZE0544-16	Surface Water	05/19/16 09:11	05/19/16 15:05
1302-Trip Blank	AZE0544-17	Water	05/16/16 00:00	05/19/16 15:05



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-CD1S
Lab No: AZE0544-01
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 08:59
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Specific Conductance	EPA 9050A	NA	103	1	1	umhos/cm		1	COND	05/17/16 08:59	05/17/16 08:59	6050530
Dissolved Oxygen	SM 4500-O G	NA	3450	0.0	1	ug/L		0.0	NA	05/17/16 08:59	05/17/16 08:59	6050530
Field - Ferrous Iron	NA	NA	ND	200	1	ug/L		200	FE2	05/17/16 08:59	05/17/16 08:59	6050530
Field - pH	EPA 9040C	NA	5.91		1	pH Units			PH	05/17/16 08:59	05/17/16 08:59	6050530
Field - Redox	NA	NA	245		1	mV			REDOX	05/17/16 08:59	05/17/16 08:59	6050530
Field - Temperature	SM 2550 B	NA	15.7		1	°C			TEMP	05/17/16 08:59	05/17/16 08:59	6050530
Field - Turbidity	EPA 180.1	NA	3.63	0.10	1	NTU		0.10	TURB	05/17/16 08:59	05/17/16 08:59	6050530
Field - Water Level	NA	NA	23.90		1	feet			WL	05/17/16 08:59	05/17/16 08:59	6050530
Field - Well Depth	NA	NA	29.62		1	feet				05/17/16 08:59	05/17/16 08:59	6050530
General Chemistry												
Alkalinity as CaCO ₃	SM 2320 B	SM 2320 B	43000	1000	1	ug/L		1000	ALK	05/19/16 10:40	05/19/16 10:40	6050450
Biochemical Oxygen Demand	SM 5210 B	SM 5210 B	ND	2000	1	ug/L		2000	E-10106	05/18/16 17:15	05/23/16 11:15	6050434
Chemical Oxygen Demand	SM 5220 D	SM 5220 D	ND	10000	1	ug/L		10000	E-10117	05/21/16 10:15	05/23/16 13:10	6050509
Total Sulfide	SM 4500-S D	SM 4500-S D	ND	200	1	ug/L		200	18496-25-8	05/24/16 09:30	05/24/16 09:30	6050561
Total Dissolved Solids	SM 2540 C	SM 2540 C	130000	10000	1	ug/L		10000	E-10173	05/23/16 12:00	05/23/16 12:00	6050522
Total Organic Carbon	EPA 9060A	EPA 9060A	ND	1000	1	ug/L		1000	E-10195	05/21/16 13:00	05/21/16 19:45	6050505
Inorganic Anions												
Chloride	EPA 9056A	EPA 300.0	3700	1000	1	ug/L		1000	16887-00-6	05/18/16 09:53	05/18/16 22:35	6050405
Nitrate as N	EPA 9056A	EPA 300.0	79	50	1	ug/L		50	14797-55-8	05/18/16 09:53	05/18/16 22:35	6050405
Sulfate	EPA 9056A	EPA 300.0	1000	5000	1	ug/L	J	51	14808-79-8	05/18/16 09:53	05/18/16 22:35	6050405



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-CD1S
Lab No: AZE0544-01
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 08:59
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020B	EPA 3005A	ND	6.00	1	ug/L		0.25	7440-36-0	05/26/16 08:15	05/26/16 14:32	6050611
Arsenic	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.75	7440-38-2	05/26/16 08:15	05/26/16 14:32	6050611
Barium	EPA 6020B	EPA 3005A	29.3	100	1	ug/L	J	0.30	7440-39-3	05/26/16 08:15	05/26/16 14:32	6050611
Beryllium	EPA 6020B	EPA 3005A	ND	1.00	1	ug/L		0.09	7440-41-7	05/26/16 08:15	05/26/16 14:32	6050611
Cadmium	EPA 6020B	EPA 3005A	ND	1.00	1	ug/L		0.10	7440-43-9	05/26/16 08:15	05/26/16 14:32	6050611
Chromium	EPA 6020B	EPA 3005A	0.94	10.0	1	ug/L	J	0.43	7440-47-3	05/26/16 08:15	05/26/16 14:32	6050611
Cobalt	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.29	7440-48-4	05/26/16 08:15	05/26/16 14:32	6050611
Copper	EPA 6020B	EPA 3005A	0.99	10.0	1	ug/L	J	0.41	7440-50-8	05/26/16 08:15	05/26/16 14:32	6050611
Lead	EPA 6020B	EPA 3005A	0.12	10.0	1	ug/L	J	0.08	7439-92-1	05/26/16 08:15	05/26/16 14:32	6050611
Nickel	EPA 6020B	EPA 3005A	1.01	50.0	1	ug/L	J	0.48	7440-02-0	05/26/16 08:15	05/26/16 14:32	6050611
Selenium	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.85	7782-49-2	05/26/16 08:15	05/26/16 14:32	6050611
Silver	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.22	7440-22-4	05/26/16 08:15	05/26/16 14:32	6050611
Thallium	EPA 6020B	EPA 3005A	ND	5.50	1	ug/L		0.06	7440-28-0	05/26/16 08:15	05/26/16 14:32	6050611
Vanadium	EPA 6020B	EPA 3005A	4.70	25.0	1	ug/L	J	1.57	7440-62-2	05/26/16 08:15	05/26/16 14:32	6050611
Zinc	EPA 6020B	EPA 3005A	1.93	10.0	1	ug/L	J	1.30	7440-66-6	05/26/16 08:15	05/26/16 14:32	6050611
Iron	EPA 6020A	EPA 3005A	446	40.0	1	ug/L		5.7	7439-89-6	05/26/16 08:15	05/26/16 14:32	6050611
Manganese	EPA 6020A	EPA 3005A	17.0	10.0	1	ug/L		1.0	7439-96-5	05/26/16 08:15	05/26/16 14:32	6050611
Mercury	EPA 7470A	EPA 7470A	ND	0.200	1	ug/L		0.132	7439-97-6	06/01/16 15:00	06/02/16 16:02	6060013
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		4.9	67-64-1	05/20/16 12:00	05/20/16 18:54	6050503
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.8	107-13-1	05/20/16 12:00	05/20/16 18:54	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-CD1S
Lab No: AZE0544-01
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 08:59
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	05/20/16 12:00	05/20/16 18:54	6050503
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	74-97-5	05/20/16 12:00	05/20/16 18:54	6050503
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-27-4	05/20/16 12:00	05/20/16 18:54	6050503
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	05/20/16 12:00	05/20/16 18:54	6050503
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	74-83-9	05/20/16 12:00	05/20/16 18:54	6050503
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.6	75-15-0	05/20/16 12:00	05/20/16 18:54	6050503
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	05/20/16 12:00	05/20/16 18:54	6050503
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	108-90-7	05/20/16 12:00	05/20/16 18:54	6050503
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	75-00-3	05/20/16 12:00	05/20/16 18:54	6050503
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	05/20/16 12:00	05/20/16 18:54	6050503
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	74-87-3	05/20/16 12:00	05/20/16 18:54	6050503
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	124-48-1	05/20/16 12:00	05/20/16 18:54	6050503
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		2.0	96-12-8	05/20/16 12:00	05/20/16 18:54	6050503
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	106-93-4	05/20/16 12:00	05/20/16 18:54	6050503
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	74-95-3	05/20/16 12:00	05/20/16 18:54	6050503
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	95-50-1	05/20/16 12:00	05/20/16 18:54	6050503
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	05/20/16 12:00	05/20/16 18:54	6050503
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	110-57-6	05/20/16 12:00	05/20/16 18:54	6050503
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	05/20/16 12:00	05/20/16 18:54	6050503
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	107-06-2	05/20/16 12:00	05/20/16 18:54	6050503
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	75-35-4	05/20/16 12:00	05/20/16 18:54	6050503
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	156-59-2	05/20/16 12:00	05/20/16 18:54	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-CD1S
Lab No: AZE0544-01
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 08:59
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L	0.4	156-60-5	05/20/16 12:00	05/20/16 18:54	6050503
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.5	78-87-5	05/20/16 12:00	05/20/16 18:54	6050503
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.4	10061-01-5	05/20/16 12:00	05/20/16 18:54	6050503
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.4	10061-02-6	05/20/16 12:00	05/20/16 18:54	6050503
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.2	100-41-4	05/20/16 12:00	05/20/16 18:54	6050503
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L	0.6	74-88-4	05/20/16 12:00	05/20/16 18:54	6050503
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L	0.9	591-78-6	05/20/16 12:00	05/20/16 18:54	6050503
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.5	75-09-2	05/20/16 12:00	05/20/16 18:54	6050503
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L	1.1	78-93-3	05/20/16 12:00	05/20/16 18:54	6050503
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L	1.7	108-10-1	05/20/16 12:00	05/20/16 18:54	6050503
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.4	100-42-5	05/20/16 12:00	05/20/16 18:54	6050503
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L	0.6	630-20-6	05/20/16 12:00	05/20/16 18:54	6050503
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.5	79-34-5	05/20/16 12:00	05/20/16 18:54	6050503
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.4	127-18-4	05/20/16 12:00	05/20/16 18:54	6050503
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.3	108-88-3	05/20/16 12:00	05/20/16 18:54	6050503
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.4	71-55-6	05/20/16 12:00	05/20/16 18:54	6050503
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.8	79-00-5	05/20/16 12:00	05/20/16 18:54	6050503
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.4	79-01-6	05/20/16 12:00	05/20/16 18:54	6050503
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.5	75-69-4	05/20/16 12:00	05/20/16 18:54	6050503
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.7	96-18-4	05/20/16 12:00	05/20/16 18:54	6050503
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L	0.8	108-05-4	05/20/16 12:00	05/20/16 18:54	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-CD1S
Lab No: AZE0544-01
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 08:59
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	75-01-4	05/20/16 12:00	05/20/16 18:54	6050503
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	1330-20-7	05/20/16 12:00	05/20/16 18:54	6050503
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	93 %		80-120				1868-53-7	05/20/16 12:00	05/20/16 18:54	6050503
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	102 %		78-120				17060-07-0	05/20/16 12:00	05/20/16 18:54	6050503
Surr: Toluene-d8	EPA 8260B	EPA 5030B	102 %		80-120				2037-26-5	05/20/16 12:00	05/20/16 18:54	6050503
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	109 %		80-120				460-00-4	05/20/16 12:00	05/20/16 18:54	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-CD1D
Lab No: AZE0544-02
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 10:14
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Specific Conductance	EPA 9050A	NA	115	1	1	umhos/cm		1	COND	05/17/16 10:14	05/17/16 10:14	6050530
Dissolved Oxygen	SM 4500-O G	NA	4500	0.0	1	ug/L		0.0	NA	05/17/16 10:14	05/17/16 10:14	6050530
Field - pH	EPA 9040C	NA	6.06		1	pH Units			PH	05/17/16 10:14	05/17/16 10:14	6050530
Field - Redox	NA	NA	210		1	mV			REDOX	05/17/16 10:14	05/17/16 10:14	6050530
Field - Temperature	SM 2550 B	NA	15.8		1	°C			TEMP	05/17/16 10:14	05/17/16 10:14	6050530
Field - Turbidity	EPA 180.1	NA	20.0	0.10	1	NTU		0.10	TURB	05/17/16 10:14	05/17/16 10:14	6050530
Field - Water Level	NA	NA	26.51		1	feet			WL	05/17/16 10:14	05/17/16 10:14	6050530
Field - Well Depth	NA	NA	52.20		1	feet				05/17/16 10:14	05/17/16 10:14	6050530
General Chemistry												
Alkalinity as CaCO3	SM 2320 B	SM 2320 B	96000	1000	1	ug/L		1000	ALK	05/19/16 10:40	05/19/16 10:40	6050450
Total Dissolved Solids	SM 2540 C	SM 2540 C	202000	10000	1	ug/L		10000	E-10173	05/23/16 12:00	05/23/16 12:00	6050522
Inorganic Anions												
Chloride	EPA 9056A	EPA 9056A	18000	1000	1	ug/L		1000	16887-00-6	05/25/16 13:58	05/26/16 03:55	6050603
Nitrate as N	EPA 9056A	EPA 9056A	ND	50	1	ug/L		50	14797-55-8	05/25/16 13:58	05/26/16 03:55	6050603
Sulfate	EPA 9056A	EPA 9056A	14000	5000	1	ug/L		5000	14808-79-8	05/25/16 13:58	05/26/16 03:55	6050603
Metals, Total												
Antimony	EPA 6020B	EPA 3005A	ND	6.00	1	ug/L		0.25	7440-36-0	05/26/16 08:15	05/26/16 14:37	6050611
Arsenic	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.75	7440-38-2	05/26/16 08:15	05/26/16 14:37	6050611
Barium	EPA 6020B	EPA 3005A	81.3	100	1	ug/L	J	0.30	7440-39-3	05/26/16 08:15	05/26/16 14:37	6050611



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-CD1D
Lab No: AZE0544-02
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 10:14
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Beryllium	EPA 6020B	EPA 3005A	0.46	1.00	1	ug/L	J	0.09	7440-41-7	05/26/16 08:15	05/26/16 14:37	6050611
Cadmium	EPA 6020B	EPA 3005A	ND	1.00	1	ug/L		0.10	7440-43-9	05/26/16 08:15	05/26/16 14:37	6050611
Chromium	EPA 6020B	EPA 3005A	4.86	10.0	1	ug/L	J	0.43	7440-47-3	05/26/16 08:15	05/26/16 14:37	6050611
Cobalt	EPA 6020B	EPA 3005A	7.42	10.0	1	ug/L	J	0.29	7440-48-4	05/26/16 08:15	05/26/16 14:37	6050611
Copper	EPA 6020B	EPA 3005A	26.0	10.0	1	ug/L		0.41	7440-50-8	05/26/16 08:15	05/26/16 14:37	6050611
Lead	EPA 6020B	EPA 3005A	3.13	10.0	1	ug/L	J	0.08	7439-92-1	05/26/16 08:15	05/26/16 14:37	6050611
Nickel	EPA 6020B	EPA 3005A	7.11	50.0	1	ug/L	J	0.48	7440-02-0	05/26/16 08:15	05/26/16 14:37	6050611
Selenium	EPA 6020B	EPA 3005A	2.11	10.0	1	ug/L	J	0.85	7782-49-2	05/26/16 08:15	05/26/16 14:37	6050611
Silver	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.22	7440-22-4	05/26/16 08:15	05/26/16 14:37	6050611
Thallium	EPA 6020B	EPA 3005A	0.07	5.50	1	ug/L	J	0.06	7440-28-0	05/26/16 08:15	05/26/16 14:37	6050611
Vanadium	EPA 6020B	EPA 3005A	29.3	25.0	1	ug/L		1.57	7440-62-2	05/26/16 08:15	05/26/16 14:37	6050611
Zinc	EPA 6020B	EPA 3005A	29.7	10.0	1	ug/L		1.30	7440-66-6	05/26/16 08:15	05/26/16 14:37	6050611
Iron	EPA 6020A	EPA 3005A	12000	400	10	ug/L		57.2	7439-89-6	05/26/16 08:15	06/03/16 16:05	6050611
Manganese	EPA 6020A	EPA 3005A	287	10.0	1	ug/L		1.0	7439-96-5	05/26/16 08:15	05/26/16 14:37	6050611
Mercury	EPA 7470A	EPA 7470A	ND	0.200	1	ug/L		0.132	7439-97-6	06/01/16 15:00	06/02/16 16:04	6060013
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		4.9	67-64-1	05/20/16 12:00	05/20/16 19:19	6050503
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.8	107-13-1	05/20/16 12:00	05/20/16 19:19	6050503
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	05/20/16 12:00	05/20/16 19:19	6050503
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	74-97-5	05/20/16 12:00	05/20/16 19:19	6050503
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-27-4	05/20/16 12:00	05/20/16 19:19	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-CD1D
Lab No: AZE0544-02
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 10:14
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	05/20/16 12:00	05/20/16 19:19	6050503
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	74-83-9	05/20/16 12:00	05/20/16 19:19	6050503
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.6	75-15-0	05/20/16 12:00	05/20/16 19:19	6050503
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	05/20/16 12:00	05/20/16 19:19	6050503
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	108-90-7	05/20/16 12:00	05/20/16 19:19	6050503
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	75-00-3	05/20/16 12:00	05/20/16 19:19	6050503
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	05/20/16 12:00	05/20/16 19:19	6050503
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	74-87-3	05/20/16 12:00	05/20/16 19:19	6050503
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	124-48-1	05/20/16 12:00	05/20/16 19:19	6050503
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		2.0	96-12-8	05/20/16 12:00	05/20/16 19:19	6050503
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	106-93-4	05/20/16 12:00	05/20/16 19:19	6050503
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	74-95-3	05/20/16 12:00	05/20/16 19:19	6050503
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	95-50-1	05/20/16 12:00	05/20/16 19:19	6050503
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	05/20/16 12:00	05/20/16 19:19	6050503
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	110-57-6	05/20/16 12:00	05/20/16 19:19	6050503
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	05/20/16 12:00	05/20/16 19:19	6050503
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	107-06-2	05/20/16 12:00	05/20/16 19:19	6050503
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	75-35-4	05/20/16 12:00	05/20/16 19:19	6050503
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	156-59-2	05/20/16 12:00	05/20/16 19:19	6050503
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	05/20/16 12:00	05/20/16 19:19	6050503
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	78-87-5	05/20/16 12:00	05/20/16 19:19	6050503
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-01-5	05/20/16 12:00	05/20/16 19:19	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-CD1D
Lab No: AZE0544-02
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 10:14
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-02-6	05/20/16 12:00	05/20/16 19:19	6050503
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	05/20/16 12:00	05/20/16 19:19	6050503
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	74-88-4	05/20/16 12:00	05/20/16 19:19	6050503
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.9	591-78-6	05/20/16 12:00	05/20/16 19:19	6050503
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-09-2	05/20/16 12:00	05/20/16 19:19	6050503
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.1	78-93-3	05/20/16 12:00	05/20/16 19:19	6050503
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.7	108-10-1	05/20/16 12:00	05/20/16 19:19	6050503
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	100-42-5	05/20/16 12:00	05/20/16 19:19	6050503
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.6	630-20-6	05/20/16 12:00	05/20/16 19:19	6050503
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	79-34-5	05/20/16 12:00	05/20/16 19:19	6050503
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	05/20/16 12:00	05/20/16 19:19	6050503
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	05/20/16 12:00	05/20/16 19:19	6050503
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	05/20/16 12:00	05/20/16 19:19	6050503
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	79-00-5	05/20/16 12:00	05/20/16 19:19	6050503
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	05/20/16 12:00	05/20/16 19:19	6050503
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-69-4	05/20/16 12:00	05/20/16 19:19	6050503
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	96-18-4	05/20/16 12:00	05/20/16 19:19	6050503
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.8	108-05-4	05/20/16 12:00	05/20/16 19:19	6050503
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	75-01-4	05/20/16 12:00	05/20/16 19:19	6050503
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	1330-20-7	05/20/16 12:00	05/20/16 19:19	6050503
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	91 %		80-120				1868-53-7	05/20/16 12:00	05/20/16 19:19	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-CD1D
Lab No: AZE0544-02
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 10:14
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	101 %	78-120				17060-07-0	05/20/16 12:00	05/20/16 19:19	6050503
Surr: Toluene-d8	EPA 8260B	EPA 5030B	102 %	80-120				2037-26-5	05/20/16 12:00	05/20/16 19:19	6050503
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	107 %	80-120				460-00-4	05/20/16 12:00	05/20/16 19:19	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW5
Lab No: AZE0544-03
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 15:56
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Specific Conductance	EPA 9050A	NA	2210	1	1	umhos/cm		1	COND	05/16/16 15:56	05/16/16 15:56	6050530
Dissolved Oxygen	SM 4500-O G	NA	4130	0.0	1	ug/L		0.0	NA	05/16/16 15:56	05/16/16 15:56	6050530
Field - pH	EPA 9040C	NA	6.25		1	pH Units			PH	05/16/16 15:56	05/16/16 15:56	6050530
Field - Redox	NA	NA	-16		1	mV			REDOX	05/16/16 15:56	05/16/16 15:56	6050530
Field - Temperature	SM 2550 B	NA	14.5		1	°C			TEMP	05/16/16 15:56	05/16/16 15:56	6050530
Field - Turbidity	EPA 180.1	NA	800	0.10	1	NTU	>	0.10	TURB	05/16/16 15:56	05/16/16 15:56	6050530
Field - Water Level	NA	NA	12.18		1	feet			WL	05/16/16 15:56	05/16/16 15:56	6050530
Field - Well Depth	NA	NA	32.39		1	feet				05/16/16 15:56	05/16/16 15:56	6050530
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		4.9	67-64-1	05/20/16 12:00	05/20/16 19:44	6050503
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.8	107-13-1	05/20/16 12:00	05/20/16 19:44	6050503
Benzene	EPA 8260B	EPA 5030B	1.2	1.0	1	ug/L		0.2	71-43-2	05/20/16 12:00	05/20/16 19:44	6050503
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	74-97-5	05/20/16 12:00	05/20/16 19:44	6050503
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-27-4	05/20/16 12:00	05/20/16 19:44	6050503
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	05/20/16 12:00	05/20/16 19:44	6050503
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	74-83-9	05/20/16 12:00	05/20/16 19:44	6050503
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.6	75-15-0	05/20/16 12:00	05/20/16 19:44	6050503
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	05/20/16 12:00	05/20/16 19:44	6050503
Chlorobenzene	EPA 8260B	EPA 5030B	19	3.0	1	ug/L		0.4	108-90-7	05/20/16 12:00	05/20/16 19:44	6050503
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	75-00-3	05/20/16 12:00	05/20/16 19:44	6050503
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	05/20/16 12:00	05/20/16 19:44	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW5
Lab No: AZE0544-03
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 15:56
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	74-87-3	05/20/16 12:00	05/20/16 19:44	6050503
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	124-48-1	05/20/16 12:00	05/20/16 19:44	6050503
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		2.0	96-12-8	05/20/16 12:00	05/20/16 19:44	6050503
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	106-93-4	05/20/16 12:00	05/20/16 19:44	6050503
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	74-95-3	05/20/16 12:00	05/20/16 19:44	6050503
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	0.5	5.0	1	ug/L	J	0.5	95-50-1	05/20/16 12:00	05/20/16 19:44	6050503
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	12	1.0	1	ug/L		0.3	106-46-7	05/20/16 12:00	05/20/16 19:44	6050503
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	110-57-6	05/20/16 12:00	05/20/16 19:44	6050503
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	05/20/16 12:00	05/20/16 19:44	6050503
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	107-06-2	05/20/16 12:00	05/20/16 19:44	6050503
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	75-35-4	05/20/16 12:00	05/20/16 19:44	6050503
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	156-59-2	05/20/16 12:00	05/20/16 19:44	6050503
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	05/20/16 12:00	05/20/16 19:44	6050503
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	78-87-5	05/20/16 12:00	05/20/16 19:44	6050503
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-01-5	05/20/16 12:00	05/20/16 19:44	6050503
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-02-6	05/20/16 12:00	05/20/16 19:44	6050503
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	05/20/16 12:00	05/20/16 19:44	6050503
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	74-88-4	05/20/16 12:00	05/20/16 19:44	6050503
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.9	591-78-6	05/20/16 12:00	05/20/16 19:44	6050503
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-09-2	05/20/16 12:00	05/20/16 19:44	6050503
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.1	78-93-3	05/20/16 12:00	05/20/16 19:44	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW5
Lab No: AZE0544-03
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 15:56
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.7	108-10-1	05/20/16 12:00	05/20/16 19:44	6050503
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	100-42-5	05/20/16 12:00	05/20/16 19:44	6050503
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.6	630-20-6	05/20/16 12:00	05/20/16 19:44	6050503
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	79-34-5	05/20/16 12:00	05/20/16 19:44	6050503
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	05/20/16 12:00	05/20/16 19:44	6050503
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	05/20/16 12:00	05/20/16 19:44	6050503
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	05/20/16 12:00	05/20/16 19:44	6050503
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	79-00-5	05/20/16 12:00	05/20/16 19:44	6050503
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	05/20/16 12:00	05/20/16 19:44	6050503
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-69-4	05/20/16 12:00	05/20/16 19:44	6050503
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	96-18-4	05/20/16 12:00	05/20/16 19:44	6050503
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.8	108-05-4	05/20/16 12:00	05/20/16 19:44	6050503
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	75-01-4	05/20/16 12:00	05/20/16 19:44	6050503
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	1330-20-7	05/20/16 12:00	05/20/16 19:44	6050503
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	92 %						1868-53-7	05/20/16 12:00	05/20/16 19:44	6050503
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	100 %						17060-07-0	05/20/16 12:00	05/20/16 19:44	6050503
Surr: Toluene-d8	EPA 8260B	EPA 5030B	103 %						2037-26-5	05/20/16 12:00	05/20/16 19:44	6050503
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	106 %						460-00-4	05/20/16 12:00	05/20/16 19:44	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW5
Lab No: AZE0544-04
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 15:20
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Turbidity	EPA 180.1	NA	8.18	0.10	1	NTU		0.10	TURB	05/17/16 15:20	05/17/16 15:20	6050530
Metals, Total												
Antimony	EPA 6020B	EPA 3005A	ND	6.00	1	ug/L		0.25	7440-36-0	05/26/16 08:15	05/26/16 14:42	6050611
Arsenic	EPA 6020B	EPA 3005A	1.40	10.0	1	ug/L	J	0.75	7440-38-2	05/26/16 08:15	05/26/16 14:42	6050611
Barium	EPA 6020B	EPA 3005A	158	100	1	ug/L		0.30	7440-39-3	05/26/16 08:15	05/26/16 14:42	6050611
Beryllium	EPA 6020B	EPA 3005A	ND	1.00	1	ug/L		0.09	7440-41-7	05/26/16 08:15	05/26/16 14:42	6050611
Cadmium	EPA 6020B	EPA 3005A	ND	1.00	1	ug/L		0.10	7440-43-9	05/26/16 08:15	05/26/16 14:42	6050611
Chromium	EPA 6020B	EPA 3005A	0.74	10.0	1	ug/L	J	0.43	7440-47-3	05/26/16 08:15	05/26/16 14:42	6050611
Cobalt	EPA 6020B	EPA 3005A	18.7	10.0	1	ug/L		0.29	7440-48-4	05/26/16 08:15	05/26/16 14:42	6050611
Copper	EPA 6020B	EPA 3005A	1.17	10.0	1	ug/L	J	0.41	7440-50-8	05/26/16 08:15	05/26/16 14:42	6050611
Lead	EPA 6020B	EPA 3005A	0.18	10.0	1	ug/L	J	0.08	7439-92-1	05/26/16 08:15	05/26/16 14:42	6050611
Nickel	EPA 6020B	EPA 3005A	36.3	50.0	1	ug/L	J	0.48	7440-02-0	05/26/16 08:15	05/26/16 14:42	6050611
Selenium	EPA 6020B	EPA 3005A	1.00	10.0	1	ug/L	J	0.85	7782-49-2	05/26/16 08:15	05/26/16 14:42	6050611
Silver	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.22	7440-22-4	05/26/16 08:15	05/26/16 14:42	6050611
Thallium	EPA 6020B	EPA 3005A	ND	5.50	1	ug/L		0.06	7440-28-0	05/26/16 08:15	05/26/16 14:42	6050611
Vanadium	EPA 6020B	EPA 3005A	ND	25.0	1	ug/L		1.57	7440-62-2	05/26/16 08:15	05/26/16 14:42	6050611
Zinc	EPA 6020B	EPA 3005A	2.42	10.0	1	ug/L	J	1.30	7440-66-6	05/26/16 08:15	05/26/16 14:42	6050611



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW7
Lab No: AZE0544-05
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 15:24
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Specific Conductance	EPA 9050A	NA	2480	1	1	umhos/cm		1	COND	05/16/16 15:24	05/16/16 15:24	6050530
Dissolved Oxygen	SM 4500-O G	NA	4760	0.0	1	ug/L		0.0	NA	05/16/16 15:24	05/16/16 15:24	6050530
Field - pH	EPA 9040C	NA	6.27		1	pH Units			PH	05/16/16 15:24	05/16/16 15:24	6050530
Field - Redox	NA	NA	-18		1	mV			REDOX	05/16/16 15:24	05/16/16 15:24	6050530
Field - Temperature	SM 2550 B	NA	15.2		1	°C			TEMP	05/16/16 15:24	05/16/16 15:24	6050530
Field - Turbidity	EPA 180.1	NA	800	0.10	1	NTU	>	0.10	TURB	05/16/16 15:24	05/16/16 15:24	6050530
Field - Water Level	NA	NA	2.45		1	feet			WL	05/16/16 15:24	05/16/16 15:24	6050530
Field - Well Depth	NA	NA	21.76		1	feet				05/16/16 15:24	05/16/16 15:24	6050530
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		4.9	67-64-1	05/20/16 12:00	05/20/16 20:10	6050503
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.8	107-13-1	05/20/16 12:00	05/20/16 20:10	6050503
Benzene	EPA 8260B	EPA 5030B	1.0	1.0	1	ug/L		0.2	71-43-2	05/20/16 12:00	05/20/16 20:10	6050503
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	74-97-5	05/20/16 12:00	05/20/16 20:10	6050503
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-27-4	05/20/16 12:00	05/20/16 20:10	6050503
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	05/20/16 12:00	05/20/16 20:10	6050503
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	74-83-9	05/20/16 12:00	05/20/16 20:10	6050503
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.6	75-15-0	05/20/16 12:00	05/20/16 20:10	6050503
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	05/20/16 12:00	05/20/16 20:10	6050503
Chlorobenzene	EPA 8260B	EPA 5030B	19	3.0	1	ug/L		0.4	108-90-7	05/20/16 12:00	05/20/16 20:10	6050503
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	75-00-3	05/20/16 12:00	05/20/16 20:10	6050503
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	05/20/16 12:00	05/20/16 20:10	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW7

Project: Cabarrus Co-Unit 1

Report No.: AZE0544

Lab No: AZE0544-05

Date/Time Sampled: 05/16/16 15:24

Matrix: Ground Water

Date/Time Received: 05/18/16 12:45

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	74-87-3	05/20/16 12:00	05/20/16 20:10	6050503
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	124-48-1	05/20/16 12:00	05/20/16 20:10	6050503
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		2.0	96-12-8	05/20/16 12:00	05/20/16 20:10	6050503
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	106-93-4	05/20/16 12:00	05/20/16 20:10	6050503
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	74-95-3	05/20/16 12:00	05/20/16 20:10	6050503
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	0.7	5.0	1	ug/L	J	0.5	95-50-1	05/20/16 12:00	05/20/16 20:10	6050503
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	12	1.0	1	ug/L		0.3	106-46-7	05/20/16 12:00	05/20/16 20:10	6050503
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	110-57-6	05/20/16 12:00	05/20/16 20:10	6050503
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	05/20/16 12:00	05/20/16 20:10	6050503
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	107-06-2	05/20/16 12:00	05/20/16 20:10	6050503
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	75-35-4	05/20/16 12:00	05/20/16 20:10	6050503
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	0.6	5.0	1	ug/L	J	0.5	156-59-2	05/20/16 12:00	05/20/16 20:10	6050503
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	05/20/16 12:00	05/20/16 20:10	6050503
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	78-87-5	05/20/16 12:00	05/20/16 20:10	6050503
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-01-5	05/20/16 12:00	05/20/16 20:10	6050503
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-02-6	05/20/16 12:00	05/20/16 20:10	6050503
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	05/20/16 12:00	05/20/16 20:10	6050503
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	74-88-4	05/20/16 12:00	05/20/16 20:10	6050503
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.9	591-78-6	05/20/16 12:00	05/20/16 20:10	6050503
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-09-2	05/20/16 12:00	05/20/16 20:10	6050503
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.1	78-93-3	05/20/16 12:00	05/20/16 20:10	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW7
Lab No: AZE0544-05
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 15:24
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.7	108-10-1	05/20/16 12:00	05/20/16 20:10	6050503
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	100-42-5	05/20/16 12:00	05/20/16 20:10	6050503
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.6	630-20-6	05/20/16 12:00	05/20/16 20:10	6050503
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	79-34-5	05/20/16 12:00	05/20/16 20:10	6050503
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	05/20/16 12:00	05/20/16 20:10	6050503
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	05/20/16 12:00	05/20/16 20:10	6050503
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	05/20/16 12:00	05/20/16 20:10	6050503
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	79-00-5	05/20/16 12:00	05/20/16 20:10	6050503
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	05/20/16 12:00	05/20/16 20:10	6050503
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-69-4	05/20/16 12:00	05/20/16 20:10	6050503
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	96-18-4	05/20/16 12:00	05/20/16 20:10	6050503
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.8	108-05-4	05/20/16 12:00	05/20/16 20:10	6050503
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	75-01-4	05/20/16 12:00	05/20/16 20:10	6050503
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	1330-20-7	05/20/16 12:00	05/20/16 20:10	6050503
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	91 %						1868-53-7	05/20/16 12:00	05/20/16 20:10	6050503
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	99 %						17060-07-0	05/20/16 12:00	05/20/16 20:10	6050503
Surr: Toluene-d8	EPA 8260B	EPA 5030B	101 %						2037-26-5	05/20/16 12:00	05/20/16 20:10	6050503
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	108 %						460-00-4	05/20/16 12:00	05/20/16 20:10	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW7
Lab No: AZE0544-06
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 15:04
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Turbidity	EPA 180.1	NA	22.0	0.10	1	NTU		0.10	TURB	05/17/16 15:04	05/17/16 15:04	6050530
Metals, Total												
Antimony	EPA 6020B	EPA 3005A	0.26	6.00	1	ug/L	J	0.25	7440-36-0	05/26/16 08:15	05/26/16 14:47	6050611
Arsenic	EPA 6020B	EPA 3005A	3.90	10.0	1	ug/L	J	0.75	7440-38-2	05/26/16 08:15	05/26/16 14:47	6050611
Barium	EPA 6020B	EPA 3005A	646	100	1	ug/L		0.30	7440-39-3	05/26/16 08:15	05/26/16 14:47	6050611
Beryllium	EPA 6020B	EPA 3005A	0.33	1.00	1	ug/L	J	0.09	7440-41-7	05/26/16 08:15	05/26/16 14:47	6050611
Cadmium	EPA 6020B	EPA 3005A	1.38	1.00	1	ug/L		0.10	7440-43-9	05/26/16 08:15	05/26/16 14:47	6050611
Chromium	EPA 6020B	EPA 3005A	6.26	10.0	1	ug/L	J	0.43	7440-47-3	05/26/16 08:15	05/26/16 14:47	6050611
Cobalt	EPA 6020B	EPA 3005A	45.2	10.0	1	ug/L		0.29	7440-48-4	05/26/16 08:15	05/26/16 14:47	6050611
Copper	EPA 6020B	EPA 3005A	5.79	10.0	1	ug/L	J	0.41	7440-50-8	05/26/16 08:15	05/26/16 14:47	6050611
Lead	EPA 6020B	EPA 3005A	7.01	10.0	1	ug/L	J	0.08	7439-92-1	05/26/16 08:15	05/26/16 14:47	6050611
Nickel	EPA 6020B	EPA 3005A	76.8	50.0	1	ug/L		0.48	7440-02-0	05/26/16 08:15	05/26/16 14:47	6050611
Selenium	EPA 6020B	EPA 3005A	3.46	10.0	1	ug/L	J	0.85	7782-49-2	05/26/16 08:15	05/26/16 14:47	6050611
Silver	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.22	7440-22-4	05/26/16 08:15	05/26/16 14:47	6050611
Thallium	EPA 6020B	EPA 3005A	0.13	5.50	1	ug/L	J	0.06	7440-28-0	05/26/16 08:15	05/26/16 14:47	6050611
Vanadium	EPA 6020B	EPA 3005A	23.2	25.0	1	ug/L	J	1.57	7440-62-2	05/26/16 08:15	05/26/16 14:47	6050611
Zinc	EPA 6020B	EPA 3005A	12.4	10.0	1	ug/L		1.30	7440-66-6	05/26/16 08:15	05/26/16 14:47	6050611



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW8A
Lab No: AZE0544-07
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 15:06
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Specific Conductance	EPA 9050A	NA	682	1	1	umhos/cm		1	COND	05/16/16 15:06	05/16/16 15:06	6050530
Dissolved Oxygen	SM 4500-O G	NA	2140	0.0	1	ug/L		0.0	NA	05/16/16 15:06	05/16/16 15:06	6050530
Field - pH	EPA 9040C	NA	6.33		1	pH Units			PH	05/16/16 15:06	05/16/16 15:06	6050530
Field - Redox	NA	NA	-1		1	mV			REDOX	05/16/16 15:06	05/16/16 15:06	6050530
Field - Temperature	SM 2550 B	NA	15.1		1	°C			TEMP	05/16/16 15:06	05/16/16 15:06	6050530
Field - Turbidity	EPA 180.1	NA	79.0	0.10	1	NTU		0.10	TURB	05/16/16 15:06	05/16/16 15:06	6050530
Field - Water Level	NA	NA	6.87		1	feet			WL	05/16/16 15:06	05/16/16 15:06	6050530
Field - Well Depth	NA	NA	25.32		1	feet				05/16/16 15:06	05/16/16 15:06	6050530
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		4.9	67-64-1	05/20/16 12:00	05/20/16 20:35	6050503
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.8	107-13-1	05/20/16 12:00	05/20/16 20:35	6050503
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	05/20/16 12:00	05/20/16 20:35	6050503
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	74-97-5	05/20/16 12:00	05/20/16 20:35	6050503
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-27-4	05/20/16 12:00	05/20/16 20:35	6050503
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	05/20/16 12:00	05/20/16 20:35	6050503
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	74-83-9	05/20/16 12:00	05/20/16 20:35	6050503
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.6	75-15-0	05/20/16 12:00	05/20/16 20:35	6050503
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	05/20/16 12:00	05/20/16 20:35	6050503
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	108-90-7	05/20/16 12:00	05/20/16 20:35	6050503
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	75-00-3	05/20/16 12:00	05/20/16 20:35	6050503
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	05/20/16 12:00	05/20/16 20:35	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW8A
Lab No: AZE0544-07
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 15:06
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	74-87-3	05/20/16 12:00	05/20/16 20:35	6050503
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	124-48-1	05/20/16 12:00	05/20/16 20:35	6050503
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		2.0	96-12-8	05/20/16 12:00	05/20/16 20:35	6050503
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	106-93-4	05/20/16 12:00	05/20/16 20:35	6050503
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	74-95-3	05/20/16 12:00	05/20/16 20:35	6050503
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	95-50-1	05/20/16 12:00	05/20/16 20:35	6050503
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	05/20/16 12:00	05/20/16 20:35	6050503
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	110-57-6	05/20/16 12:00	05/20/16 20:35	6050503
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	05/20/16 12:00	05/20/16 20:35	6050503
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	107-06-2	05/20/16 12:00	05/20/16 20:35	6050503
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	75-35-4	05/20/16 12:00	05/20/16 20:35	6050503
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	156-59-2	05/20/16 12:00	05/20/16 20:35	6050503
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	05/20/16 12:00	05/20/16 20:35	6050503
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	78-87-5	05/20/16 12:00	05/20/16 20:35	6050503
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-01-5	05/20/16 12:00	05/20/16 20:35	6050503
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-02-6	05/20/16 12:00	05/20/16 20:35	6050503
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	05/20/16 12:00	05/20/16 20:35	6050503
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	74-88-4	05/20/16 12:00	05/20/16 20:35	6050503
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.9	591-78-6	05/20/16 12:00	05/20/16 20:35	6050503
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-09-2	05/20/16 12:00	05/20/16 20:35	6050503
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.1	78-93-3	05/20/16 12:00	05/20/16 20:35	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW8A
Lab No: AZE0544-07
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 15:06
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.7	108-10-1	05/20/16 12:00	05/20/16 20:35	6050503
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	100-42-5	05/20/16 12:00	05/20/16 20:35	6050503
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.6	630-20-6	05/20/16 12:00	05/20/16 20:35	6050503
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	79-34-5	05/20/16 12:00	05/20/16 20:35	6050503
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	05/20/16 12:00	05/20/16 20:35	6050503
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	05/20/16 12:00	05/20/16 20:35	6050503
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	05/20/16 12:00	05/20/16 20:35	6050503
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	79-00-5	05/20/16 12:00	05/20/16 20:35	6050503
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	05/20/16 12:00	05/20/16 20:35	6050503
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-69-4	05/20/16 12:00	05/20/16 20:35	6050503
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	96-18-4	05/20/16 12:00	05/20/16 20:35	6050503
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.8	108-05-4	05/20/16 12:00	05/20/16 20:35	6050503
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	75-01-4	05/20/16 12:00	05/20/16 20:35	6050503
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	1330-20-7	05/20/16 12:00	05/20/16 20:35	6050503
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	92 %						1868-53-7	05/20/16 12:00	05/20/16 20:35	6050503
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	103 %						17060-07-0	05/20/16 12:00	05/20/16 20:35	6050503
Surr: Toluene-d8	EPA 8260B	EPA 5030B	102 %						2037-26-5	05/20/16 12:00	05/20/16 20:35	6050503
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	106 %						460-00-4	05/20/16 12:00	05/20/16 20:35	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW8A
Lab No: AZE0544-08
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 14:56
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Turbidity	EPA 180.1	NA	6.41	0.10	1	NTU		0.10	TURB	05/17/16 14:56	05/17/16 14:56	6050530
Metals, Total												
Antimony	EPA 6020B	EPA 3005A	ND	6.00	1	ug/L		0.25	7440-36-0	05/26/16 08:15	05/26/16 14:52	6050611
Arsenic	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.75	7440-38-2	05/26/16 08:15	05/26/16 14:52	6050611
Barium	EPA 6020B	EPA 3005A	35.8	100	1	ug/L	J	0.30	7440-39-3	05/26/16 08:15	05/26/16 14:52	6050611
Beryllium	EPA 6020B	EPA 3005A	ND	1.00	1	ug/L		0.09	7440-41-7	05/26/16 08:15	05/26/16 14:52	6050611
Cadmium	EPA 6020B	EPA 3005A	0.12	1.00	1	ug/L	J	0.10	7440-43-9	05/26/16 08:15	05/26/16 14:52	6050611
Chromium	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.43	7440-47-3	05/26/16 08:15	05/26/16 14:52	6050611
Cobalt	EPA 6020B	EPA 3005A	8.08	10.0	1	ug/L	J	0.29	7440-48-4	05/26/16 08:15	05/26/16 14:52	6050611
Copper	EPA 6020B	EPA 3005A	4.03	10.0	1	ug/L	J	0.41	7440-50-8	05/26/16 08:15	05/26/16 14:52	6050611
Lead	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.08	7439-92-1	05/26/16 08:15	05/26/16 14:52	6050611
Nickel	EPA 6020B	EPA 3005A	9.05	50.0	1	ug/L	J	0.48	7440-02-0	05/26/16 08:15	05/26/16 14:52	6050611
Selenium	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.85	7782-49-2	05/26/16 08:15	05/26/16 14:52	6050611
Silver	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.22	7440-22-4	05/26/16 08:15	05/26/16 14:52	6050611
Thallium	EPA 6020B	EPA 3005A	ND	5.50	1	ug/L		0.06	7440-28-0	05/26/16 08:15	05/26/16 14:52	6050611
Vanadium	EPA 6020B	EPA 3005A	ND	25.0	1	ug/L		1.57	7440-62-2	05/26/16 08:15	05/26/16 14:52	6050611
Zinc	EPA 6020B	EPA 3005A	27.2	10.0	1	ug/L		1.30	7440-66-6	05/26/16 08:15	05/26/16 14:52	6050611



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW10
Lab No: AZE0544-09
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 15:42
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Specific Conductance	EPA 9050A	NA	2160	1	1	umhos/cm		1	COND	05/16/16 15:42	05/16/16 15:42	6050530
Dissolved Oxygen	SM 4500-O G	NA	3350	0.0	1	ug/L		0.0	NA	05/16/16 15:42	05/16/16 15:42	6050530
Field - pH	EPA 9040C	NA	6.57		1	pH Units			PH	05/16/16 15:42	05/16/16 15:42	6050530
Field - Redox	NA	NA	-39		1	mV			REDOX	05/16/16 15:42	05/16/16 15:42	6050530
Field - Temperature	SM 2550 B	NA	15.6		1	°C			TEMP	05/16/16 15:42	05/16/16 15:42	6050530
Field - Turbidity	EPA 180.1	NA	29.0	0.10	1	NTU		0.10	TURB	05/16/16 15:42	05/16/16 15:42	6050530
Field - Water Level	NA	NA	8.96		1	feet			WL	05/16/16 15:42	05/16/16 15:42	6050530
Field - Well Depth	NA	NA	35.36		1	feet				05/16/16 15:42	05/16/16 15:42	6050530
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		4.9	67-64-1	05/20/16 12:00	05/20/16 21:00	6050503
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.8	107-13-1	05/20/16 12:00	05/20/16 21:00	6050503
Benzene	EPA 8260B	EPA 5030B	1.0	1.0	1	ug/L	J	0.2	71-43-2	05/20/16 12:00	05/20/16 21:00	6050503
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	74-97-5	05/20/16 12:00	05/20/16 21:00	6050503
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-27-4	05/20/16 12:00	05/20/16 21:00	6050503
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	05/20/16 12:00	05/20/16 21:00	6050503
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	74-83-9	05/20/16 12:00	05/20/16 21:00	6050503
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.6	75-15-0	05/20/16 12:00	05/20/16 21:00	6050503
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	05/20/16 12:00	05/20/16 21:00	6050503
Chlorobenzene	EPA 8260B	EPA 5030B	39	3.0	1	ug/L		0.4	108-90-7	05/20/16 12:00	05/20/16 21:00	6050503
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	75-00-3	05/20/16 12:00	05/20/16 21:00	6050503
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	05/20/16 12:00	05/20/16 21:00	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW10
Lab No: AZE0544-09
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 15:42
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	74-87-3	05/20/16 12:00	05/20/16 21:00	6050503
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	124-48-1	05/20/16 12:00	05/20/16 21:00	6050503
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		2.0	96-12-8	05/20/16 12:00	05/20/16 21:00	6050503
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	106-93-4	05/20/16 12:00	05/20/16 21:00	6050503
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	74-95-3	05/20/16 12:00	05/20/16 21:00	6050503
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	1.0	5.0	1	ug/L	J	0.5	95-50-1	05/20/16 12:00	05/20/16 21:00	6050503
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	9.6	1.0	1	ug/L		0.3	106-46-7	05/20/16 12:00	05/20/16 21:00	6050503
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	110-57-6	05/20/16 12:00	05/20/16 21:00	6050503
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	05/20/16 12:00	05/20/16 21:00	6050503
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	107-06-2	05/20/16 12:00	05/20/16 21:00	6050503
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	75-35-4	05/20/16 12:00	05/20/16 21:00	6050503
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	156-59-2	05/20/16 12:00	05/20/16 21:00	6050503
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	05/20/16 12:00	05/20/16 21:00	6050503
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	78-87-5	05/20/16 12:00	05/20/16 21:00	6050503
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-01-5	05/20/16 12:00	05/20/16 21:00	6050503
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-02-6	05/20/16 12:00	05/20/16 21:00	6050503
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	05/20/16 12:00	05/20/16 21:00	6050503
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	74-88-4	05/20/16 12:00	05/20/16 21:00	6050503
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.9	591-78-6	05/20/16 12:00	05/20/16 21:00	6050503
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-09-2	05/20/16 12:00	05/20/16 21:00	6050503
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.1	78-93-3	05/20/16 12:00	05/20/16 21:00	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW10
Lab No: AZE0544-09
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 15:42
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.7	108-10-1	05/20/16 12:00	05/20/16 21:00	6050503
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	100-42-5	05/20/16 12:00	05/20/16 21:00	6050503
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.6	630-20-6	05/20/16 12:00	05/20/16 21:00	6050503
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	79-34-5	05/20/16 12:00	05/20/16 21:00	6050503
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	05/20/16 12:00	05/20/16 21:00	6050503
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	05/20/16 12:00	05/20/16 21:00	6050503
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	05/20/16 12:00	05/20/16 21:00	6050503
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	79-00-5	05/20/16 12:00	05/20/16 21:00	6050503
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	05/20/16 12:00	05/20/16 21:00	6050503
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-69-4	05/20/16 12:00	05/20/16 21:00	6050503
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	96-18-4	05/20/16 12:00	05/20/16 21:00	6050503
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.8	108-05-4	05/20/16 12:00	05/20/16 21:00	6050503
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	75-01-4	05/20/16 12:00	05/20/16 21:00	6050503
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	1330-20-7	05/20/16 12:00	05/20/16 21:00	6050503
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	91 %						1868-53-7	05/20/16 12:00	05/20/16 21:00	6050503
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	100 %						17060-07-0	05/20/16 12:00	05/20/16 21:00	6050503
Surr: Toluene-d8	EPA 8260B	EPA 5030B	100 %						2037-26-5	05/20/16 12:00	05/20/16 21:00	6050503
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	104 %						460-00-4	05/20/16 12:00	05/20/16 21:00	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW10
Lab No: AZE0544-10
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 15:10
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Turbidity	EPA 180.1	NA	25.0	0.10	1	NTU		0.10	TURB	05/17/16 15:10	05/17/16 15:10	6050530
Metals, Total												
Antimony	EPA 6020B	EPA 3005A	ND	6.00	1	ug/L		0.25	7440-36-0	05/26/16 08:15	05/26/16 14:57	6050611
Arsenic	EPA 6020B	EPA 3005A	16.7	10.0	1	ug/L		0.75	7440-38-2	05/26/16 08:15	05/26/16 14:57	6050611
Barium	EPA 6020B	EPA 3005A	166	100	1	ug/L		0.30	7440-39-3	05/26/16 08:15	05/26/16 14:57	6050611
Beryllium	EPA 6020B	EPA 3005A	0.39	1.00	1	ug/L	J	0.09	7440-41-7	05/26/16 08:15	05/26/16 14:57	6050611
Cadmium	EPA 6020B	EPA 3005A	ND	1.00	1	ug/L		0.10	7440-43-9	05/26/16 08:15	05/26/16 14:57	6050611
Chromium	EPA 6020B	EPA 3005A	1.67	10.0	1	ug/L	J	0.43	7440-47-3	05/26/16 08:15	05/26/16 14:57	6050611
Cobalt	EPA 6020B	EPA 3005A	31.6	10.0	1	ug/L		0.29	7440-48-4	05/26/16 08:15	05/26/16 14:57	6050611
Copper	EPA 6020B	EPA 3005A	0.72	10.0	1	ug/L	J	0.41	7440-50-8	05/26/16 08:15	05/26/16 14:57	6050611
Lead	EPA 6020B	EPA 3005A	0.21	10.0	1	ug/L	J	0.08	7439-92-1	05/26/16 08:15	05/26/16 14:57	6050611
Nickel	EPA 6020B	EPA 3005A	147	50.0	1	ug/L		0.48	7440-02-0	05/26/16 08:15	05/26/16 14:57	6050611
Selenium	EPA 6020B	EPA 3005A	1.06	10.0	1	ug/L	J	0.85	7782-49-2	05/26/16 08:15	05/26/16 14:57	6050611
Silver	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.22	7440-22-4	05/26/16 08:15	05/26/16 14:57	6050611
Thallium	EPA 6020B	EPA 3005A	ND	5.50	1	ug/L		0.06	7440-28-0	05/26/16 08:15	05/26/16 14:57	6050611
Vanadium	EPA 6020B	EPA 3005A	3.21	25.0	1	ug/L	J	1.57	7440-62-2	05/26/16 08:15	05/26/16 14:57	6050611
Zinc	EPA 6020B	EPA 3005A	2.88	10.0	1	ug/L	J	1.30	7440-66-6	05/26/16 08:15	05/26/16 14:57	6050611



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW11
Lab No: AZE0544-11
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 16:12
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Specific Conductance	EPA 9050A	NA	472	1	1	umhos/cm		1	COND	05/16/16 16:12	05/16/16 16:12	6050530
Dissolved Oxygen	SM 4500-O G	NA	3300	0.0	1	ug/L		0.0	NA	05/16/16 16:12	05/16/16 16:12	6050530
Field - pH	EPA 9040C	NA	5.98		1	pH Units			PH	05/16/16 16:12	05/16/16 16:12	6050530
Field - Redox	NA	NA	24		1	mV			REDOX	05/16/16 16:12	05/16/16 16:12	6050530
Field - Temperature	SM 2550 B	NA	14.2		1	°C			TEMP	05/16/16 16:12	05/16/16 16:12	6050530
Field - Turbidity	EPA 180.1	NA	57.0	0.10	1	NTU		0.10	TURB	05/16/16 16:12	05/16/16 16:12	6050530
Field - Water Level	NA	NA	6.68		1	feet			WL	05/16/16 16:12	05/16/16 16:12	6050530
Field - Well Depth	NA	NA	25.33		1	feet				05/16/16 16:12	05/16/16 16:12	6050530
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		4.9	67-64-1	05/20/16 12:00	05/20/16 21:26	6050503
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.8	107-13-1	05/20/16 12:00	05/20/16 21:26	6050503
Benzene	EPA 8260B	EPA 5030B	0.3	1.0	1	ug/L	J	0.2	71-43-2	05/20/16 12:00	05/20/16 21:26	6050503
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	74-97-5	05/20/16 12:00	05/20/16 21:26	6050503
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-27-4	05/20/16 12:00	05/20/16 21:26	6050503
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	05/20/16 12:00	05/20/16 21:26	6050503
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	74-83-9	05/20/16 12:00	05/20/16 21:26	6050503
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.6	75-15-0	05/20/16 12:00	05/20/16 21:26	6050503
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	05/20/16 12:00	05/20/16 21:26	6050503
Chlorobenzene	EPA 8260B	EPA 5030B	4.6	3.0	1	ug/L		0.4	108-90-7	05/20/16 12:00	05/20/16 21:26	6050503
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	75-00-3	05/20/16 12:00	05/20/16 21:26	6050503
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	05/20/16 12:00	05/20/16 21:26	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW11

Lab No: AZE0544-11

Matrix: Ground Water

Project: Cabarrus Co-Unit 1

Report No.: AZE0544

Date/Time Sampled: 05/16/16 16:12

Date/Time Received: 05/18/16 12:45

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	74-87-3	05/20/16 12:00	05/20/16 21:26	6050503
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	124-48-1	05/20/16 12:00	05/20/16 21:26	6050503
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		2.0	96-12-8	05/20/16 12:00	05/20/16 21:26	6050503
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	106-93-4	05/20/16 12:00	05/20/16 21:26	6050503
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	74-95-3	05/20/16 12:00	05/20/16 21:26	6050503
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	95-50-1	05/20/16 12:00	05/20/16 21:26	6050503
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	1.6	1.0	1	ug/L		0.3	106-46-7	05/20/16 12:00	05/20/16 21:26	6050503
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	110-57-6	05/20/16 12:00	05/20/16 21:26	6050503
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	05/20/16 12:00	05/20/16 21:26	6050503
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	107-06-2	05/20/16 12:00	05/20/16 21:26	6050503
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	75-35-4	05/20/16 12:00	05/20/16 21:26	6050503
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	156-59-2	05/20/16 12:00	05/20/16 21:26	6050503
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	05/20/16 12:00	05/20/16 21:26	6050503
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	78-87-5	05/20/16 12:00	05/20/16 21:26	6050503
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-01-5	05/20/16 12:00	05/20/16 21:26	6050503
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-02-6	05/20/16 12:00	05/20/16 21:26	6050503
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	05/20/16 12:00	05/20/16 21:26	6050503
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	74-88-4	05/20/16 12:00	05/20/16 21:26	6050503
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.9	591-78-6	05/20/16 12:00	05/20/16 21:26	6050503
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-09-2	05/20/16 12:00	05/20/16 21:26	6050503
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.1	78-93-3	05/20/16 12:00	05/20/16 21:26	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW11
Lab No: AZE0544-11
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 16:12
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.7	108-10-1	05/20/16 12:00	05/20/16 21:26	6050503
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	100-42-5	05/20/16 12:00	05/20/16 21:26	6050503
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.6	630-20-6	05/20/16 12:00	05/20/16 21:26	6050503
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	79-34-5	05/20/16 12:00	05/20/16 21:26	6050503
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	05/20/16 12:00	05/20/16 21:26	6050503
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	05/20/16 12:00	05/20/16 21:26	6050503
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	05/20/16 12:00	05/20/16 21:26	6050503
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	79-00-5	05/20/16 12:00	05/20/16 21:26	6050503
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	05/20/16 12:00	05/20/16 21:26	6050503
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-69-4	05/20/16 12:00	05/20/16 21:26	6050503
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	96-18-4	05/20/16 12:00	05/20/16 21:26	6050503
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.8	108-05-4	05/20/16 12:00	05/20/16 21:26	6050503
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	75-01-4	05/20/16 12:00	05/20/16 21:26	6050503
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	1330-20-7	05/20/16 12:00	05/20/16 21:26	6050503
Surrogate: Dibromofluoromethane	EPA 8260B	EPA 5030B	92 %						1868-53-7	05/20/16 12:00	05/20/16 21:26	6050503
Surrogate: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	101 %						17060-07-0	05/20/16 12:00	05/20/16 21:26	6050503
Surrogate: Toluene-d8	EPA 8260B	EPA 5030B	100 %						2037-26-5	05/20/16 12:00	05/20/16 21:26	6050503
Surrogate: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	104 %						460-00-4	05/20/16 12:00	05/20/16 21:26	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-MW11
Lab No: AZE0544-12
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 15:28
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Turbidity	EPA 180.1	NA	2.80	0.10	1	NTU		0.10	TURB	05/17/16 15:28	05/17/16 15:28	6050530
Metals, Total												
Antimony	EPA 6020B	EPA 3005A	ND	6.00	1	ug/L		0.25	7440-36-0	05/26/16 08:15	05/26/16 15:19	6050611
Arsenic	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.75	7440-38-2	05/26/16 08:15	05/26/16 15:19	6050611
Barium	EPA 6020B	EPA 3005A	163	100	1	ug/L		0.30	7440-39-3	05/26/16 08:15	05/26/16 15:19	6050611
Beryllium	EPA 6020B	EPA 3005A	ND	1.00	1	ug/L		0.09	7440-41-7	05/26/16 08:15	05/26/16 15:19	6050611
Cadmium	EPA 6020B	EPA 3005A	ND	1.00	1	ug/L		0.10	7440-43-9	05/26/16 08:15	05/26/16 15:19	6050611
Chromium	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.43	7440-47-3	05/26/16 08:15	05/26/16 15:19	6050611
Cobalt	EPA 6020B	EPA 3005A	10.9	10.0	1	ug/L		0.29	7440-48-4	05/26/16 08:15	05/26/16 15:19	6050611
Copper	EPA 6020B	EPA 3005A	2.12	10.0	1	ug/L	J	0.41	7440-50-8	05/26/16 08:15	05/26/16 15:19	6050611
Lead	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.08	7439-92-1	05/26/16 08:15	05/26/16 15:19	6050611
Nickel	EPA 6020B	EPA 3005A	11.7	50.0	1	ug/L	J	0.48	7440-02-0	05/26/16 08:15	05/26/16 15:19	6050611
Selenium	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.85	7782-49-2	05/26/16 08:15	05/26/16 15:19	6050611
Silver	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.22	7440-22-4	05/26/16 08:15	05/26/16 15:19	6050611
Thallium	EPA 6020B	EPA 3005A	ND	5.50	1	ug/L		0.06	7440-28-0	05/26/16 08:15	05/26/16 15:19	6050611
Vanadium	EPA 6020B	EPA 3005A	5.56	25.0	1	ug/L	J	1.57	7440-62-2	05/26/16 08:15	05/26/16 15:19	6050611
Zinc	EPA 6020B	EPA 3005A	19.4	10.0	1	ug/L		1.30	7440-66-6	05/26/16 08:15	05/26/16 15:19	6050611



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-Duplicate
Lab No: AZE0544-13
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 00:00
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		4.9	67-64-1	05/20/16 12:00	05/20/16 21:51	6050503
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.8	107-13-1	05/20/16 12:00	05/20/16 21:51	6050503
Benzene	EPA 8260B	EPA 5030B	0.8	1.0	1	ug/L	J	0.2	71-43-2	05/20/16 12:00	05/20/16 21:51	6050503
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	74-97-5	05/20/16 12:00	05/20/16 21:51	6050503
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-27-4	05/20/16 12:00	05/20/16 21:51	6050503
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	05/20/16 12:00	05/20/16 21:51	6050503
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	74-83-9	05/20/16 12:00	05/20/16 21:51	6050503
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.6	75-15-0	05/20/16 12:00	05/20/16 21:51	6050503
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	05/20/16 12:00	05/20/16 21:51	6050503
Chlorobenzene	EPA 8260B	EPA 5030B	17	3.0	1	ug/L		0.4	108-90-7	05/20/16 12:00	05/20/16 21:51	6050503
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	75-00-3	05/20/16 12:00	05/20/16 21:51	6050503
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	05/20/16 12:00	05/20/16 21:51	6050503
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	74-87-3	05/20/16 12:00	05/20/16 21:51	6050503
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	124-48-1	05/20/16 12:00	05/20/16 21:51	6050503
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		2.0	96-12-8	05/20/16 12:00	05/20/16 21:51	6050503
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	106-93-4	05/20/16 12:00	05/20/16 21:51	6050503
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	74-95-3	05/20/16 12:00	05/20/16 21:51	6050503
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	0.8	5.0	1	ug/L	J	0.5	95-50-1	05/20/16 12:00	05/20/16 21:51	6050503
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	11	1.0	1	ug/L		0.3	106-46-7	05/20/16 12:00	05/20/16 21:51	6050503
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	110-57-6	05/20/16 12:00	05/20/16 21:51	6050503
1,1-Dichloroethane	EPA 8260B	EPA 5030B	0.6	5.0	1	ug/L	J	0.4	75-34-3	05/20/16 12:00	05/20/16 21:51	6050503
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	107-06-2	05/20/16 12:00	05/20/16 21:51	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-Duplicate
Lab No: AZE0544-13
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 00:00
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	75-35-4	05/20/16 12:00	05/20/16 21:51	6050503
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	0.6	5.0	1	ug/L	J	0.5	156-59-2	05/20/16 12:00	05/20/16 21:51	6050503
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	05/20/16 12:00	05/20/16 21:51	6050503
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	78-87-5	05/20/16 12:00	05/20/16 21:51	6050503
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-01-5	05/20/16 12:00	05/20/16 21:51	6050503
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-02-6	05/20/16 12:00	05/20/16 21:51	6050503
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	05/20/16 12:00	05/20/16 21:51	6050503
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	74-88-4	05/20/16 12:00	05/20/16 21:51	6050503
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.9	591-78-6	05/20/16 12:00	05/20/16 21:51	6050503
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-09-2	05/20/16 12:00	05/20/16 21:51	6050503
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.1	78-93-3	05/20/16 12:00	05/20/16 21:51	6050503
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.7	108-10-1	05/20/16 12:00	05/20/16 21:51	6050503
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	100-42-5	05/20/16 12:00	05/20/16 21:51	6050503
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.6	630-20-6	05/20/16 12:00	05/20/16 21:51	6050503
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	79-34-5	05/20/16 12:00	05/20/16 21:51	6050503
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	05/20/16 12:00	05/20/16 21:51	6050503
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	05/20/16 12:00	05/20/16 21:51	6050503
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	05/20/16 12:00	05/20/16 21:51	6050503
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	79-00-5	05/20/16 12:00	05/20/16 21:51	6050503
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	05/20/16 12:00	05/20/16 21:51	6050503
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-69-4	05/20/16 12:00	05/20/16 21:51	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-Duplicate
Lab No: AZE0544-13
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 00:00
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.7	96-18-4	05/20/16 12:00	05/20/16 21:51	6050503
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L	0.8	108-05-4	05/20/16 12:00	05/20/16 21:51	6050503
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.7	75-01-4	05/20/16 12:00	05/20/16 21:51	6050503
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L	0.4	1330-20-7	05/20/16 12:00	05/20/16 21:51	6050503
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	93 %	80-120				1868-53-7	05/20/16 12:00	05/20/16 21:51	6050503
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	101 %	78-120				17060-07-0	05/20/16 12:00	05/20/16 21:51	6050503
Surr: Toluene-d8	EPA 8260B	EPA 5030B	102 %	80-120				2037-26-5	05/20/16 12:00	05/20/16 21:51	6050503
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	107 %	80-120				460-00-4	05/20/16 12:00	05/20/16 21:51	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-Duplicate
Lab No: AZE0544-14
Matrix: Ground Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/17/16 00:00
Date/Time Received: 05/18/16 12:45

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Antimony	EPA 6020B	EPA 3005A	0.26	6.00	1	ug/L	J	0.25	7440-36-0	05/26/16 08:15	05/26/16 15:24	6050611
Arsenic	EPA 6020B	EPA 3005A	4.08	10.0	1	ug/L	J	0.75	7440-38-2	05/26/16 08:15	05/26/16 15:24	6050611
Barium	EPA 6020B	EPA 3005A	604	100	1	ug/L		0.30	7440-39-3	05/26/16 08:15	05/26/16 15:24	6050611
Beryllium	EPA 6020B	EPA 3005A	0.32	1.00	1	ug/L	J	0.09	7440-41-7	05/26/16 08:15	05/26/16 15:24	6050611
Cadmium	EPA 6020B	EPA 3005A	1.37	1.00	1	ug/L		0.10	7440-43-9	05/26/16 08:15	05/26/16 15:24	6050611
Chromium	EPA 6020B	EPA 3005A	5.64	10.0	1	ug/L	J	0.43	7440-47-3	05/26/16 08:15	05/26/16 15:24	6050611
Cobalt	EPA 6020B	EPA 3005A	47.6	10.0	1	ug/L		0.29	7440-48-4	05/26/16 08:15	05/26/16 15:24	6050611
Copper	EPA 6020B	EPA 3005A	5.73	10.0	1	ug/L	J	0.41	7440-50-8	05/26/16 08:15	05/26/16 15:24	6050611
Lead	EPA 6020B	EPA 3005A	6.13	10.0	1	ug/L	J	0.08	7439-92-1	05/26/16 08:15	05/26/16 15:24	6050611
Nickel	EPA 6020B	EPA 3005A	63.1	50.0	1	ug/L		0.48	7440-02-0	05/26/16 08:15	05/26/16 15:24	6050611
Selenium	EPA 6020B	EPA 3005A	3.03	10.0	1	ug/L	J	0.85	7782-49-2	05/26/16 08:15	05/26/16 15:24	6050611
Silver	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.22	7440-22-4	05/26/16 08:15	05/26/16 15:24	6050611
Thallium	EPA 6020B	EPA 3005A	0.13	5.50	1	ug/L	J	0.06	7440-28-0	05/26/16 08:15	05/26/16 15:24	6050611
Vanadium	EPA 6020B	EPA 3005A	21.3	25.0	1	ug/L	J	1.57	7440-62-2	05/26/16 08:15	05/26/16 15:24	6050611
Zinc	EPA 6020B	EPA 3005A	13.1	10.0	1	ug/L		1.30	7440-66-6	05/26/16 08:15	05/26/16 15:24	6050611



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-SW1
Lab No: AZE0544-15
Matrix: Surface Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/19/16 09:18
Date/Time Received: 05/19/16 15:05

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Specific Conductance	EPA 9050A	NA	342	1	1	umhos/cm		1	COND	05/19/16 09:18	05/19/16 09:18	6050530
Dissolved Oxygen	SM 4500-O G	NA	4990	0.0	1	ug/L		0.0	NA	05/19/16 09:18	05/19/16 09:18	6050530
Field - pH	EPA 9040C	NA	6.99		1	pH Units			PH	05/19/16 09:18	05/19/16 09:18	6050530
Field - Redox	NA	NA	360		1	mV			REDOX	05/19/16 09:18	05/19/16 09:18	6050530
Field - Temperature	SM 2550 B	NA	15.4		1	°C			TEMP	05/19/16 09:18	05/19/16 09:18	6050530
Field - Turbidity	EPA 180.1	NA	800	0.10	1	NTU	>	0.10	TURB	05/19/16 09:18	05/19/16 09:18	6050530
Metals, Total												
Antimony	EPA 6020B	EPA 3005A	ND	6.00	1	ug/L		0.25	7440-36-0	05/26/16 08:15	05/26/16 15:29	6050611
Arsenic	EPA 6020B	EPA 3005A	3.52	10.0	1	ug/L	J	0.75	7440-38-2	05/26/16 08:15	05/26/16 15:29	6050611
Barium	EPA 6020B	EPA 3005A	157	100	1	ug/L		0.30	7440-39-3	05/26/16 08:15	05/26/16 15:29	6050611
Beryllium	EPA 6020B	EPA 3005A	1.44	1.00	1	ug/L		0.09	7440-41-7	05/26/16 08:15	05/26/16 15:29	6050611
Cadmium	EPA 6020B	EPA 3005A	ND	1.00	1	ug/L		0.10	7440-43-9	05/26/16 08:15	05/26/16 15:29	6050611
Chromium	EPA 6020B	EPA 3005A	37.2	10.0	1	ug/L		0.43	7440-47-3	05/26/16 08:15	05/26/16 15:29	6050611
Cobalt	EPA 6020B	EPA 3005A	15.6	10.0	1	ug/L		0.29	7440-48-4	05/26/16 08:15	05/26/16 15:29	6050611
Copper	EPA 6020B	EPA 3005A	25.1	10.0	1	ug/L		0.41	7440-50-8	05/26/16 08:15	05/26/16 15:29	6050611
Lead	EPA 6020B	EPA 3005A	14.8	10.0	1	ug/L		0.08	7439-92-1	05/26/16 08:15	05/26/16 15:29	6050611
Nickel	EPA 6020B	EPA 3005A	17.2	50.0	1	ug/L	J	0.48	7440-02-0	05/26/16 08:15	05/26/16 15:29	6050611
Selenium	EPA 6020B	EPA 3005A	5.33	10.0	1	ug/L	J	0.85	7782-49-2	05/26/16 08:15	05/26/16 15:29	6050611
Silver	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.22	7440-22-4	05/26/16 08:15	05/26/16 15:29	6050611
Thallium	EPA 6020B	EPA 3005A	0.08	5.50	1	ug/L	J	0.06	7440-28-0	05/26/16 08:15	05/26/16 15:29	6050611



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-SW1
Lab No: AZE0544-15
Matrix: Surface Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/19/16 09:18
Date/Time Received: 05/19/16 15:05

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Vanadium	EPA 6020B	EPA 3005A	65.2	25.0	1	ug/L		1.57	7440-62-2	05/26/16 08:15	05/26/16 15:29	6050611
Zinc	EPA 6020B	EPA 3005A	64.0	10.0	1	ug/L		1.30	7440-66-6	05/26/16 08:15	05/26/16 15:29	6050611
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		4.9	67-64-1	05/20/16 12:00	05/20/16 22:16	6050503
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.8	107-13-1	05/20/16 12:00	05/20/16 22:16	6050503
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	05/20/16 12:00	05/20/16 22:16	6050503
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	74-97-5	05/20/16 12:00	05/20/16 22:16	6050503
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-27-4	05/20/16 12:00	05/20/16 22:16	6050503
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	05/20/16 12:00	05/20/16 22:16	6050503
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	74-83-9	05/20/16 12:00	05/20/16 22:16	6050503
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.6	75-15-0	05/20/16 12:00	05/20/16 22:16	6050503
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	05/20/16 12:00	05/20/16 22:16	6050503
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	108-90-7	05/20/16 12:00	05/20/16 22:16	6050503
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	75-00-3	05/20/16 12:00	05/20/16 22:16	6050503
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	05/20/16 12:00	05/20/16 22:16	6050503
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	74-87-3	05/20/16 12:00	05/20/16 22:16	6050503
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	124-48-1	05/20/16 12:00	05/20/16 22:16	6050503
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		2.0	96-12-8	05/20/16 12:00	05/20/16 22:16	6050503
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	106-93-4	05/20/16 12:00	05/20/16 22:16	6050503
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	74-95-3	05/20/16 12:00	05/20/16 22:16	6050503
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	95-50-1	05/20/16 12:00	05/20/16 22:16	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-SW1
Lab No: AZE0544-15
Matrix: Surface Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/19/16 09:18
Date/Time Received: 05/19/16 15:05

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	05/20/16 12:00	05/20/16 22:16	6050503
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	110-57-6	05/20/16 12:00	05/20/16 22:16	6050503
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	05/20/16 12:00	05/20/16 22:16	6050503
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	107-06-2	05/20/16 12:00	05/20/16 22:16	6050503
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	75-35-4	05/20/16 12:00	05/20/16 22:16	6050503
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	156-59-2	05/20/16 12:00	05/20/16 22:16	6050503
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	05/20/16 12:00	05/20/16 22:16	6050503
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	78-87-5	05/20/16 12:00	05/20/16 22:16	6050503
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-01-5	05/20/16 12:00	05/20/16 22:16	6050503
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-02-6	05/20/16 12:00	05/20/16 22:16	6050503
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	05/20/16 12:00	05/20/16 22:16	6050503
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	74-88-4	05/20/16 12:00	05/20/16 22:16	6050503
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.9	591-78-6	05/20/16 12:00	05/20/16 22:16	6050503
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-09-2	05/20/16 12:00	05/20/16 22:16	6050503
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.1	78-93-3	05/20/16 12:00	05/20/16 22:16	6050503
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.7	108-10-1	05/20/16 12:00	05/20/16 22:16	6050503
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	100-42-5	05/20/16 12:00	05/20/16 22:16	6050503
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.6	630-20-6	05/20/16 12:00	05/20/16 22:16	6050503
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	79-34-5	05/20/16 12:00	05/20/16 22:16	6050503
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	05/20/16 12:00	05/20/16 22:16	6050503
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	05/20/16 12:00	05/20/16 22:16	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-SW1
Lab No: AZE0544-15
Matrix: Surface Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/19/16 09:18
Date/Time Received: 05/19/16 15:05

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	05/20/16 12:00	05/20/16 22:16	6050503
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	79-00-5	05/20/16 12:00	05/20/16 22:16	6050503
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	05/20/16 12:00	05/20/16 22:16	6050503
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-69-4	05/20/16 12:00	05/20/16 22:16	6050503
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	96-18-4	05/20/16 12:00	05/20/16 22:16	6050503
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.8	108-05-4	05/20/16 12:00	05/20/16 22:16	6050503
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	75-01-4	05/20/16 12:00	05/20/16 22:16	6050503
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	1330-20-7	05/20/16 12:00	05/20/16 22:16	6050503
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	92 %			80-120			1868-53-7	05/20/16 12:00	05/20/16 22:16	6050503
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	102 %			78-120			17060-07-0	05/20/16 12:00	05/20/16 22:16	6050503
Surr: Toluene-d8	EPA 8260B	EPA 5030B	102 %			80-120			2037-26-5	05/20/16 12:00	05/20/16 22:16	6050503
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	108 %			80-120			460-00-4	05/20/16 12:00	05/20/16 22:16	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-SW2
Lab No: AZE0544-16
Matrix: Surface Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/19/16 09:11
Date/Time Received: 05/19/16 15:05

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Specific Conductance	EPA 9050A	NA	241	1	1	umhos/cm		1	COND	05/19/16 09:11	05/19/16 09:11	6050530
Dissolved Oxygen	SM 4500-O G	NA	3510	0.0	1	ug/L		0.0	NA	05/19/16 09:11	05/19/16 09:11	6050530
Field - pH	EPA 9040C	NA	6.80		1	pH Units			PH	05/19/16 09:11	05/19/16 09:11	6050530
Field - Redox	NA	NA	181		1	mV			REDOX	05/19/16 09:11	05/19/16 09:11	6050530
Field - Temperature	SM 2550 B	NA	15.6		1	°C			TEMP	05/19/16 09:11	05/19/16 09:11	6050530
Field - Turbidity	EPA 180.1	NA	590	0.10	1	NTU		0.10	TURB	05/19/16 09:11	05/19/16 09:11	6050530
Metals, Total												
Antimony	EPA 6020B	EPA 3005A	ND	6.00	1	ug/L		0.25	7440-36-0	05/26/16 08:15	05/26/16 15:34	6050611
Arsenic	EPA 6020B	EPA 3005A	2.35	10.0	1	ug/L	J	0.75	7440-38-2	05/26/16 08:15	05/26/16 15:34	6050611
Barium	EPA 6020B	EPA 3005A	89.0	100	1	ug/L	J	0.30	7440-39-3	05/26/16 08:15	05/26/16 15:34	6050611
Beryllium	EPA 6020B	EPA 3005A	0.94	1.00	1	ug/L	J	0.09	7440-41-7	05/26/16 08:15	05/26/16 15:34	6050611
Cadmium	EPA 6020B	EPA 3005A	ND	1.00	1	ug/L		0.10	7440-43-9	05/26/16 08:15	05/26/16 15:34	6050611
Chromium	EPA 6020B	EPA 3005A	12.2	10.0	1	ug/L		0.43	7440-47-3	05/26/16 08:15	05/26/16 15:34	6050611
Cobalt	EPA 6020B	EPA 3005A	7.21	10.0	1	ug/L	J	0.29	7440-48-4	05/26/16 08:15	05/26/16 15:34	6050611
Copper	EPA 6020B	EPA 3005A	11.9	10.0	1	ug/L		0.41	7440-50-8	05/26/16 08:15	05/26/16 15:34	6050611
Lead	EPA 6020B	EPA 3005A	8.73	10.0	1	ug/L	J	0.08	7439-92-1	05/26/16 08:15	05/26/16 15:34	6050611
Nickel	EPA 6020B	EPA 3005A	8.33	50.0	1	ug/L	J	0.48	7440-02-0	05/26/16 08:15	05/26/16 15:34	6050611
Selenium	EPA 6020B	EPA 3005A	3.40	10.0	1	ug/L	J	0.85	7782-49-2	05/26/16 08:15	05/26/16 15:34	6050611
Silver	EPA 6020B	EPA 3005A	ND	10.0	1	ug/L		0.22	7440-22-4	05/26/16 08:15	05/26/16 15:34	6050611
Thallium	EPA 6020B	EPA 3005A	ND	5.50	1	ug/L		0.06	7440-28-0	05/26/16 08:15	05/26/16 15:34	6050611



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-SW2
Lab No: AZE0544-16
Matrix: Surface Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/19/16 09:11
Date/Time Received: 05/19/16 15:05

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Vanadium	EPA 6020B	EPA 3005A	32.7	25.0	1	ug/L		1.57	7440-62-2	05/26/16 08:15	05/26/16 15:34	6050611
Zinc	EPA 6020B	EPA 3005A	35.0	10.0	1	ug/L		1.30	7440-66-6	05/26/16 08:15	05/26/16 15:34	6050611
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		4.9	67-64-1	05/20/16 12:00	05/20/16 22:41	6050503
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.8	107-13-1	05/20/16 12:00	05/20/16 22:41	6050503
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	05/20/16 12:00	05/20/16 22:41	6050503
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	74-97-5	05/20/16 12:00	05/20/16 22:41	6050503
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-27-4	05/20/16 12:00	05/20/16 22:41	6050503
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	05/20/16 12:00	05/20/16 22:41	6050503
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	74-83-9	05/20/16 12:00	05/20/16 22:41	6050503
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.6	75-15-0	05/20/16 12:00	05/20/16 22:41	6050503
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	05/20/16 12:00	05/20/16 22:41	6050503
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	108-90-7	05/20/16 12:00	05/20/16 22:41	6050503
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	75-00-3	05/20/16 12:00	05/20/16 22:41	6050503
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	05/20/16 12:00	05/20/16 22:41	6050503
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	74-87-3	05/20/16 12:00	05/20/16 22:41	6050503
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	124-48-1	05/20/16 12:00	05/20/16 22:41	6050503
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		2.0	96-12-8	05/20/16 12:00	05/20/16 22:41	6050503
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	106-93-4	05/20/16 12:00	05/20/16 22:41	6050503
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	74-95-3	05/20/16 12:00	05/20/16 22:41	6050503
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	95-50-1	05/20/16 12:00	05/20/16 22:41	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-SW2
Lab No: AZE0544-16
Matrix: Surface Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/19/16 09:11
Date/Time Received: 05/19/16 15:05

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	05/20/16 12:00	05/20/16 22:41	6050503
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	110-57-6	05/20/16 12:00	05/20/16 22:41	6050503
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	05/20/16 12:00	05/20/16 22:41	6050503
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	107-06-2	05/20/16 12:00	05/20/16 22:41	6050503
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	75-35-4	05/20/16 12:00	05/20/16 22:41	6050503
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	156-59-2	05/20/16 12:00	05/20/16 22:41	6050503
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	05/20/16 12:00	05/20/16 22:41	6050503
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	78-87-5	05/20/16 12:00	05/20/16 22:41	6050503
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-01-5	05/20/16 12:00	05/20/16 22:41	6050503
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	10061-02-6	05/20/16 12:00	05/20/16 22:41	6050503
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	100-41-4	05/20/16 12:00	05/20/16 22:41	6050503
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	74-88-4	05/20/16 12:00	05/20/16 22:41	6050503
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.9	591-78-6	05/20/16 12:00	05/20/16 22:41	6050503
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-09-2	05/20/16 12:00	05/20/16 22:41	6050503
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.1	78-93-3	05/20/16 12:00	05/20/16 22:41	6050503
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.7	108-10-1	05/20/16 12:00	05/20/16 22:41	6050503
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	100-42-5	05/20/16 12:00	05/20/16 22:41	6050503
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.6	630-20-6	05/20/16 12:00	05/20/16 22:41	6050503
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	79-34-5	05/20/16 12:00	05/20/16 22:41	6050503
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	05/20/16 12:00	05/20/16 22:41	6050503
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	05/20/16 12:00	05/20/16 22:41	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-SW2
Lab No: AZE0544-16
Matrix: Surface Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/19/16 09:11
Date/Time Received: 05/19/16 15:05

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	71-55-6	05/20/16 12:00	05/20/16 22:41	6050503
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	79-00-5	05/20/16 12:00	05/20/16 22:41	6050503
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-01-6	05/20/16 12:00	05/20/16 22:41	6050503
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-69-4	05/20/16 12:00	05/20/16 22:41	6050503
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	96-18-4	05/20/16 12:00	05/20/16 22:41	6050503
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.8	108-05-4	05/20/16 12:00	05/20/16 22:41	6050503
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	75-01-4	05/20/16 12:00	05/20/16 22:41	6050503
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	1330-20-7	05/20/16 12:00	05/20/16 22:41	6050503
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	92 %			80-120			1868-53-7	05/20/16 12:00	05/20/16 22:41	6050503
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	102 %			78-120			17060-07-0	05/20/16 12:00	05/20/16 22:41	6050503
Surr: Toluene-d8	EPA 8260B	EPA 5030B	103 %			80-120			2037-26-5	05/20/16 12:00	05/20/16 22:41	6050503
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	109 %			80-120			460-00-4	05/20/16 12:00	05/20/16 22:41	6050503



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-Trip Blank
Lab No: AZE0544-17
Matrix: Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 00:00
Date/Time Received: 05/19/16 15:05

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		4.9	67-64-1	05/20/16 05:15	05/20/16 08:22	6050502
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		1.8	107-13-1	05/20/16 05:15	05/20/16 08:22	6050502
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	05/20/16 05:15	05/20/16 08:22	6050502
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	74-97-5	05/20/16 05:15	05/20/16 08:22	6050502
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	75-27-4	05/20/16 05:15	05/20/16 08:22	6050502
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.7	75-25-2	05/20/16 05:15	05/20/16 08:22	6050502
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	74-83-9	05/20/16 05:15	05/20/16 08:22	6050502
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.6	75-15-0	05/20/16 05:15	05/20/16 08:22	6050502
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	05/20/16 05:15	05/20/16 08:22	6050502
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	108-90-7	05/20/16 05:15	05/20/16 08:22	6050502
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	75-00-3	05/20/16 05:15	05/20/16 08:22	6050502
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	05/20/16 05:15	05/20/16 08:22	6050502
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	74-87-3	05/20/16 05:15	05/20/16 08:22	6050502
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	124-48-1	05/20/16 05:15	05/20/16 08:22	6050502
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		2.0	96-12-8	05/20/16 05:15	05/20/16 08:22	6050502
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.7	106-93-4	05/20/16 05:15	05/20/16 08:22	6050502
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.7	74-95-3	05/20/16 05:15	05/20/16 08:22	6050502
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.5	95-50-1	05/20/16 05:15	05/20/16 08:22	6050502
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	05/20/16 05:15	05/20/16 08:22	6050502
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.5	110-57-6	05/20/16 05:15	05/20/16 08:22	6050502
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	05/20/16 05:15	05/20/16 08:22	6050502
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	107-06-2	05/20/16 05:15	05/20/16 08:22	6050502



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-Trip Blank
Lab No: AZE0544-17
Matrix: Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 00:00
Date/Time Received: 05/19/16 15:05

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L	0.5	75-35-4	05/20/16 05:15	05/20/16 08:22	6050502
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L	0.5	156-59-2	05/20/16 05:15	05/20/16 08:22	6050502
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L	0.4	156-60-5	05/20/16 05:15	05/20/16 08:22	6050502
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.5	78-87-5	05/20/16 05:15	05/20/16 08:22	6050502
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.4	10061-01-5	05/20/16 05:15	05/20/16 08:22	6050502
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.4	10061-02-6	05/20/16 05:15	05/20/16 08:22	6050502
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.2	100-41-4	05/20/16 05:15	05/20/16 08:22	6050502
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L	0.6	74-88-4	05/20/16 05:15	05/20/16 08:22	6050502
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L	0.9	591-78-6	05/20/16 05:15	05/20/16 08:22	6050502
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.5	75-09-2	05/20/16 05:15	05/20/16 08:22	6050502
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L	1.1	78-93-3	05/20/16 05:15	05/20/16 08:22	6050502
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	100	1	ug/L	1.7	108-10-1	05/20/16 05:15	05/20/16 08:22	6050502
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.4	100-42-5	05/20/16 05:15	05/20/16 08:22	6050502
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L	0.6	630-20-6	05/20/16 05:15	05/20/16 08:22	6050502
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.5	79-34-5	05/20/16 05:15	05/20/16 08:22	6050502
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.4	127-18-4	05/20/16 05:15	05/20/16 08:22	6050502
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.3	108-88-3	05/20/16 05:15	05/20/16 08:22	6050502
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.4	71-55-6	05/20/16 05:15	05/20/16 08:22	6050502
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.8	79-00-5	05/20/16 05:15	05/20/16 08:22	6050502
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.4	79-01-6	05/20/16 05:15	05/20/16 08:22	6050502
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.5	75-69-4	05/20/16 05:15	05/20/16 08:22	6050502



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Client ID: 1302-Trip Blank
Lab No: AZE0544-17
Matrix: Water

Project: Cabarrus Co-Unit 1
Date/Time Sampled: 05/16/16 00:00
Date/Time Received: 05/19/16 15:05

Report No.: AZE0544

Analyte	Analytical Method	Prep Method	Result	SWSL/RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
---------	-------------------	-------------	--------	---------	----	-------	------	-----	-------	----------------	--------------------	-------

Volatile Organic Compounds by EPA 8260

1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.7	96-18-4	05/20/16 05:15	05/20/16 08:22	6050502
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L	0.8	108-05-4	05/20/16 05:15	05/20/16 08:22	6050502
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L	0.7	75-01-4	05/20/16 05:15	05/20/16 08:22	6050502
Xylenes, total	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L	0.4	1330-20-7	05/20/16 05:15	05/20/16 08:22	6050502
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	92 %	80-120				1868-53-7	05/20/16 05:15	05/20/16 08:22	6050502
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	99 %	78-120				17060-07-0	05/20/16 05:15	05/20/16 08:22	6050502
Surr: Toluene-d8	EPA 8260B	EPA 5030B	102 %	80-120				2037-26-5	05/20/16 05:15	05/20/16 08:22	6050502
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	105 %	80-120				460-00-4	05/20/16 05:15	05/20/16 08:22	6050502



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 6050434 - SM 5210 B										
Blank (6050434-BLK1)										
Biochemical Oxygen Demand	ND	2000	ug/L							
LCS (6050434-BS1)										
Biochemical Oxygen Demand	200000	2000	ug/L	198000		101	85-115			
Duplicate (6050434-DUP1)										
Biochemical Oxygen Demand	ND	10000	ug/L		ND				20	
Batch 6050450 - SM 2320 B										
Blank (6050450-BLK1)										
Alkalinity as CaCO3	ND	1000	ug/L							
LCS (6050450-BS1)										
Alkalinity as CaCO3	100000	1000	ug/L	100000		100	85-115			
Duplicate (6050450-DUP1)										
Biochemical Oxygen Demand	85000	1000	ug/L	85000				0	10	
Batch 6050505 - EPA 9060A										
Blank (6050505-BLK1)										
Total Organic Carbon	ND	1000	ug/L							
LCS (6050505-BS1)										
Total Organic Carbon	19700	1000	ug/L	20000		98	88-112			



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 6050505 - EPA 9060A										
Matrix Spike (6050505-MS1) Source: AZE0475-01 Prepared & Analyzed: 05/21/16										
Total Organic Carbon	21000	1000	ug/L	20000	1060	100	67-141			
Matrix Spike Dup (6050505-MSD1) Source: AZE0475-01 Prepared & Analyzed: 05/21/16										
Total Organic Carbon	20800	1000	ug/L	20000	1060	99	67-141	1	16	
Batch 6050509 - SM 5220 D										
Blank (6050509-BLK1) Prepared & Analyzed: 05/23/16										
Chemical Oxygen Demand	ND	10000	ug/L							
LCS (6050509-BS1) Prepared & Analyzed: 05/23/16										
Chemical Oxygen Demand	204000	10000	ug/L	200000		102	90-110			
Matrix Spike (6050509-MS1) Source: AZE0494-01RE1 Prepared & Analyzed: 05/23/16										
Chemical Oxygen Demand	4660000	160000	ug/L	800000	488000	521	90-110			QM-05
Matrix Spike (6050509-MS2) Source: AZE0618-01 Prepared & Analyzed: 05/23/16										
Chemical Oxygen Demand	237000	10000	ug/L	200000	ND	119	90-110			QM-05
Matrix Spike Dup (6050509-MSD1) Source: AZE0494-01RE1 Prepared & Analyzed: 05/23/16										
Chemical Oxygen Demand	4660000	160000	ug/L	800000	488000	521	90-110	0	10	QM-05
Batch 6050522 - SM 2540 C										
Blank (6050522-BLK1) Prepared & Analyzed: 05/23/16										
Total Dissolved Solids	ND	10000	ug/L							



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 6050522 - SM 2540 C										
LCS (6050522-BS1)										
Total Dissolved Solids	400000	10000	ug/L	400000		100	84-108			
Duplicate (6050522-DUP1)										
Source: AZE0540-03										
Total Dissolved Solids	96000	10000	ug/L		103000		7	10		
Duplicate (6050522-DUP2)										
Source: AZE0540-10										
Total Dissolved Solids	141000	10000	ug/L		128000		10	10		
Batch 6050561 - SM 4500-S D										
Blank (6050561-BLK1)										
Total Sulfide	ND	200	ug/L							
LCS (6050561-BS1)										
Total Sulfide	499	200	ug/L	538.80		92.6	80-120			
Matrix Spike (6050561-MS1)										
Source: AZE0468-01										
Total Sulfide	608	200	ug/L	538.80	ND	113	30-129			
Matrix Spike Dup (6050561-MSD1)										
Source: AZE0468-01										
Total Sulfide	591	200	ug/L	538.80	ND	110	30-129	2.84	10	



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Inorganic Anions - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 6050405 - EPA 300.0										
Blank (6050405-BLK1)										
Chloride	ND	1000	ug/L							
Nitrate as N	ND	50	ug/L							
Sulfate	ND	5000	ug/L							
LCS (6050405-BS1)										
Chloride	9760	1000	ug/L	10010		98	90-110			
Nitrate as N	9810	50	ug/L	10010		98	90-110			
Sulfate	10000	5000	ug/L	10010		100	90-110			
Matrix Spike (6050405-MS1)										
Source: AZE0497-01						Prepared & Analyzed: 05/18/16				
Chloride	73200	1000	ug/L	10010	67500	58	90-110			QM-02
Nitrate as N	9700	50	ug/L	10010	177	95	90-110			
Sulfate	18500	5000	ug/L	10010	9040	94	90-110			
Matrix Spike (6050405-MS2)										
Source: AZE0544-01						Prepared & Analyzed: 05/18/16				
Chloride	13400	1000	ug/L	10010	3730	97	90-110			
Nitrate as N	9610	50	ug/L	10010	79.0	95	90-110			
Sulfate	10700	5000	ug/L	10010	1040	96	90-110			
Matrix Spike Dup (6050405-MSD1)										
Source: AZE0497-01						Prepared & Analyzed: 05/18/16				
Chloride	73200	1000	ug/L	10010	67500	57	90-110	0.06	15	QM-02
Nitrate as N	9710	50	ug/L	10010	177	95	90-110	0.1	15	
Sulfate	18500	5000	ug/L	10010	9040	95	90-110	0.09	15	
Batch 6050603 - EPA 9056A										
Blank (6050603-BLK1)										
Chloride	ND	1000	ug/L							
Prepared & Analyzed: 05/25/16										



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Inorganic Anions - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 6050603 - EPA 9056A										
Blank (6050603-BLK1)										
Nitrate as N	ND	50	ug/L							
Sulfate	ND	5000	ug/L							
LCS (6050603-BS1)										
Chloride	9670	1000	ug/L	10010		97	90-110			
Nitrate as N	9960	50	ug/L	10010		100	90-110			
Sulfate	9770	5000	ug/L	10010		98	90-110			
Matrix Spike (6050603-MS1)										
Source: AZE0694-01						Prepared & Analyzed: 05/25/16				
Chloride	73100	1000	ug/L	10010	86100	0	90-110			QM-02
Nitrate as N	9920	50	ug/L	10010	126	98	90-110			
Sulfate	18300	5000	ug/L	10010	ND	183	90-110			QM-05
Matrix Spike (6050603-MS2)										
Source: AZE0540-09						Prepared: 05/25/16 Analyzed: 05/26/16				
Chloride	14900	1000	ug/L	10010	5010	99	90-110			
Nitrate as N	10000	50	ug/L	10010	520	95	90-110			
Sulfate	12800	5000	ug/L	10010	3330	94	90-110			
Matrix Spike Dup (6050603-MSD1)										
Source: AZE0694-01						Prepared & Analyzed: 05/25/16				
Chloride	73000	1000	ug/L	10010	86100	0	90-110	0.1	15	QM-02
Nitrate as N	9900	50	ug/L	10010	126	98	90-110	0.2	15	
Sulfate	18300	5000	ug/L	10010	ND	183	90-110	0.1	15	QM-05



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	------

Batch 6050611 - EPA 3005A

Blank (6050611-BLK1)

Prepared & Analyzed: 05/26/16

Antimony	ND	6.00	ug/L							
Arsenic	ND	10.0	ug/L							
Barium	ND	100	ug/L							
Beryllium	ND	1.00	ug/L							
Cadmium	ND	1.00	ug/L							
Chromium	ND	10.0	ug/L							
Cobalt	ND	10.0	ug/L							
Copper	ND	10.0	ug/L							
Iron	ND	40.0	ug/L							
Lead	ND	10.0	ug/L							
Manganese	ND	10.0	ug/L							
Nickel	ND	50.0	ug/L							
Selenium	ND	10.0	ug/L							
Silver	ND	10.0	ug/L							
Thallium	ND	5.50	ug/L							
Vanadium	ND	25.0	ug/L							
Zinc	ND	10.0	ug/L							

LCS (6050611-BS1)

Prepared & Analyzed: 05/26/16

Antimony	98.6	6.00	ug/L	100.00	99	80-120		
Arsenic	98.7	10.0	ug/L	100.00	99	80-120		
Barium	99.8	100	ug/L	100.00	100	80-120		J
Beryllium	98.6	1.00	ug/L	100.00	99	80-120		
Cadmium	96.9	1.00	ug/L	100.00	97	80-120		
Chromium	100	10.0	ug/L	100.00	100	80-120		
Cobalt	97.2	10.0	ug/L	100.00	97	80-120		
Copper	96.4	10.0	ug/L	100.00	96	80-120		



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 6050611 - EPA 3005A										
LCS (6050611-BS1)										
Iron	1000	40.0	ug/L	1000.0		100	80-120			
Lead	95.9	10.0	ug/L	100.00		96	80-120			
Manganese	104	10.0	ug/L	100.00		104	80-120			
Nickel	99.2	50.0	ug/L	100.00		99	80-120			
Selenium	102	10.0	ug/L	100.00		102	80-120			
Silver	100	10.0	ug/L	100.00		100	80-120			
Thallium	97.4	5.50	ug/L	100.00		97	80-120			
Vanadium	99.9	25.0	ug/L	100.00		100	80-120			
Zinc	99.1	10.0	ug/L	100.00		99	80-120			
Matrix Spike (6050611-MS1)										
Source: AZE0540-01										
Antimony	99.4	6.00	ug/L	100.00	1.32	98	75-125			
Arsenic	95.9	10.0	ug/L	100.00	ND	96	75-125			
Barium	176	100	ug/L	100.00	68.4	107	75-125			
Beryllium	98.7	1.00	ug/L	100.00	ND	99	75-125			
Cadmium	93.9	1.00	ug/L	100.00	ND	94	75-125			
Chromium	102	10.0	ug/L	100.00	ND	102	75-125			
Cobalt	98.3	10.0	ug/L	100.00	ND	98	75-125			
Copper	96.5	10.0	ug/L	100.00	1.03	95	75-125			
Iron	1010	40.0	ug/L	1000.0	37.8	97	75-125			
Lead	96.0	10.0	ug/L	100.00	ND	96	75-125			
Manganese	108	10.0	ug/L	100.00	6.13	102	75-125			
Nickel	95.9	50.0	ug/L	100.00	ND	96	75-125			
Selenium	95.5	10.0	ug/L	100.00	0.95	95	75-125			
Silver	98.9	10.0	ug/L	100.00	ND	99	75-125			
Thallium	98.2	5.50	ug/L	100.00	0.12	98	75-125			
Vanadium	105	25.0	ug/L	100.00	4.10	101	75-125			



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 6050611 - EPA 3005A										
Matrix Spike (6050611-MS1)										
Source: AZE0540-01										
Zinc	98.6	10.0	ug/L	100.00	ND	99	75-125			
Matrix Spike Dup (6050611-MSD1)										
Source: AZE0540-01										
Antimony	96.1	6.00	ug/L	100.00	1.32	95	75-125	3	20	
Arsenic	96.7	10.0	ug/L	100.00	ND	97	75-125	0.8	20	
Barium	173	100	ug/L	100.00	68.4	105	75-125	1	20	
Beryllium	102	1.00	ug/L	100.00	ND	102	75-125	4	20	
Cadmium	97.7	1.00	ug/L	100.00	ND	98	75-125	4	20	
Chromium	105	10.0	ug/L	100.00	ND	105	75-125	3	20	
Cobalt	102	10.0	ug/L	100.00	ND	102	75-125	3	20	
Copper	97.9	10.0	ug/L	100.00	1.03	97	75-125	1	20	
Iron	1040	40.0	ug/L	1000.0	37.8	100	75-125	3	20	
Lead	96.7	10.0	ug/L	100.00	ND	97	75-125	0.8	20	
Manganese	109	10.0	ug/L	100.00	6.13	103	75-125	1	20	
Nickel	100	50.0	ug/L	100.00	ND	100	75-125	4	20	
Selenium	98.7	10.0	ug/L	100.00	0.95	98	75-125	3	20	
Silver	99.2	10.0	ug/L	100.00	ND	99	75-125	0.3	20	
Thallium	98.2	5.50	ug/L	100.00	0.12	98	75-125	0.06	20	
Vanadium	106	25.0	ug/L	100.00	4.10	101	75-125	0.7	20	
Zinc	97.6	10.0	ug/L	100.00	ND	98	75-125	1	20	
Post Spike (6050611-PS1)										
Source: AZE0540-01										
Prepared & Analyzed: 05/26/16										
Antimony	90.5		ug/L	100.00	1.32	89	80-120			
Arsenic	95.0		ug/L	100.00	0.58	94	80-120			
Barium	174		ug/L	100.00	68.4	105	80-120			
Beryllium	104		ug/L	100.00	0.02	104	80-120			
Cadmium	97.7		ug/L	100.00	0.007	98	80-120			



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	------

Batch 6050611 - EPA 3005A

Post Spike (6050611-PS1)		Source: AZE0540-01				Prepared & Analyzed: 05/26/16				
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Chromium	101		ug/L	100.00	0.15	101	80-120			
Cobalt	102		ug/L	100.00	0.03	102	80-120			
Copper	96.9		ug/L	100.00	1.03	96	80-120			
Iron	1020		ug/L	1000.0	37.8	98	80-120			
Lead	95.0		ug/L	100.00	0.01	95	80-120			
Manganese	109		ug/L	100.00	6.13	103	80-120			
Nickel	99.3		ug/L	100.00	0.11	99	80-120			
Selenium	99.5		ug/L	100.00	0.95	99	80-120			
Silver	99.4		ug/L	100.00	0.10	99	80-120			
Thallium	97.1		ug/L	100.00	0.12	97	80-120			
Vanadium	107		ug/L	100.00	4.10	103	80-120			
Zinc	97.4		ug/L	100.00	0.52	97	80-120			

Batch 6060013 - EPA 7470A

Blank (6060013-BLK1)				Prepared: 06/01/16 Analyzed: 06/02/16			
	Mercury	ND	0.200 ug/L				

LCS (6060013-BS1)				Prepared: 06/01/16 Analyzed: 06/02/16			
	Mercury	2.13	0.200 ug/L	2.5000	85	80-120	

Duplicate (6060013-DUP1)				Prepared: 06/01/16 Analyzed: 06/02/16			
	Mercury	1.35	0.200 ug/L	1.19	12	20	

Duplicate (6060013-DUP2)				Prepared: 06/01/16 Analyzed: 06/02/16			
	Mercury	0.659	0.200 ug/L	0.675	2	20	



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 6060013 - EPA 7470A										
Matrix Spike (6060013-MS1) Source: AZE0546-06 Prepared: 06/01/16 Analyzed: 06/02/16										
Mercury	1.84	0.200	ug/L	2.5000	ND	74	75-125			QM-05
Matrix Spike Dup (6060013-MSD1) Source: AZE0546-06 Prepared: 06/01/16 Analyzed: 06/02/16										
Mercury	1.77	0.200	ug/L	2.5000	ND	71	75-125	4	20	QM-05
Post Spike (6060013-PS1) Source: AZE0546-06 Prepared: 06/01/16 Analyzed: 06/02/16										
Mercury	1.30		ug/L	1.6667	0.074	73	80-120			QM-05



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	------

Batch 6050502 - EPA 5030B

Blank (6050502-BLK1)

Prepared & Analyzed: 05/20/16

Acetone	ND	100	ug/L							
Acrylonitrile	ND	200	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	3.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	3.0	ug/L							
Bromomethane	ND	10	ug/L							
Carbon Disulfide	ND	100	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	3.0	ug/L							
Chloroethane	ND	10	ug/L							
Chloroform	ND	5.0	ug/L							
Chloromethane	ND	1.0	ug/L							
Dibromochloromethane	ND	1.0	ug/L							
1,2-Dibromo-3-chloropropane	ND	13	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
Dibromomethane	ND	10	ug/L							
1,2-Dichlorobenzene	ND	5.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
trans-1,4-Dichloro-2-butene	ND	100	ug/L							
1,1-Dichloroethane	ND	5.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	5.0	ug/L							
cis-1,2-Dichloroethene	ND	5.0	ug/L							
trans-1,2-Dichloroethene	ND	5.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	1.0	ug/L							



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 6050502 - EPA 5030B										
Blank (6050502-BLK1)										
trans-1,3-Dichloropropene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Iodomethane	ND	10	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	50	ug/L							
Methylene Chloride	ND	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L							
Styrene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
Vinyl Acetate	ND	50	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylenes, total	ND	4.0	ug/L							
<i>Surr: Dibromofluoromethane</i>	46		ug/L	50.000		93	80-120			
<i>Surr: 1,2-Dichloroethane-d4</i>	50		ug/L	50.000		100	78-120			
<i>Surr: Toluene-d8</i>	51		ug/L	50.000		102	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	53		ug/L	50.000		107	80-120			
LCS (6050502-BS1)										
Prepared & Analyzed: 05/20/16										



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 6050502 - EPA 5030B										
LCS (6050502-BS1)										
Benzene	51		ug/L	50.000		101	67-134			
Chlorobenzene	51		ug/L	50.000		103	69-122			
1,1-Dichloroethene	49		ug/L	50.000		98	58-142			
Toluene	50		ug/L	50.000		101	68-127			
Trichloroethene	53		ug/L	50.000		106	72-132			
<i>Surr: Dibromofluoromethane</i>	48		ug/L	50.000		95	80-120			
<i>Surr: 1,2-Dichloroethane-d4</i>	50		ug/L	50.000		101	78-120			
<i>Surr: Toluene-d8</i>	51		ug/L	50.000		101	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	53		ug/L	50.000		106	80-120			
Matrix Spike (6050502-MS1)										
Source: AZE0496-20										
Benzene	51		ug/L	50.000	ND	101	67-134			
Chlorobenzene	50		ug/L	50.000	ND	101	69-122			
1,1-Dichloroethene	52		ug/L	50.000	ND	103	58-142			
Toluene	50		ug/L	50.000	ND	100	68-127			
Trichloroethene	53		ug/L	50.000	ND	107	72-132			
<i>Surr: Dibromofluoromethane</i>	46		ug/L	50.000		91	80-120			
<i>Surr: 1,2-Dichloroethane-d4</i>	51		ug/L	50.000		102	78-120			
<i>Surr: Toluene-d8</i>	51		ug/L	50.000		101	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	53		ug/L	50.000		107	80-120			
Matrix Spike Dup (6050502-MSD1)										
Source: AZE0496-20										
Benzene	52		ug/L	50.000	ND	104	67-134	3	9	
Chlorobenzene	52		ug/L	50.000	ND	104	69-122	3	13	
1,1-Dichloroethene	53		ug/L	50.000	ND	105	58-142	2	9	



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	------

Batch 6050502 - EPA 5030B

Matrix Spike Dup (6050502-MSD1)	Source: AZE0496-20					Prepared & Analyzed: 05/20/16			
Toluene	50		ug/L	50.000	ND	101	68-127	0.6	9
Trichloroethene	54		ug/L	50.000	ND	109	72-132	2	11
<i>Surr: Dibromofluoromethane</i>	47		ug/L	50.000		93	80-120		
<i>Surr: 1,2-Dichloroethane-d4</i>	51		ug/L	50.000		102	78-120		
<i>Surr: Toluene-d8</i>	50		ug/L	50.000		101	80-120		
<i>Surr: 4-Bromofluorobenzene</i>	53		ug/L	50.000		107	80-120		

Batch 6050503 - EPA 5030B

Blank (6050503-BLK1)						Prepared & Analyzed: 05/20/16			
Acetone	ND	100	ug/L						
Acrylonitrile	ND	200	ug/L						
Benzene	ND	1.0	ug/L						
Bromochloromethane	ND	3.0	ug/L						
Bromodichloromethane	ND	1.0	ug/L						
Bromoform	ND	3.0	ug/L						
Bromomethane	ND	10	ug/L						
Carbon Disulfide	ND	100	ug/L						
Carbon Tetrachloride	ND	1.0	ug/L						
Chlorobenzene	ND	3.0	ug/L						
Chloroethane	ND	10	ug/L						
Chloroform	ND	5.0	ug/L						
Chloromethane	ND	1.0	ug/L						
Dibromochloromethane	ND	1.0	ug/L						
1,2-Dibromo-3-chloropropane	ND	13	ug/L						
1,2-Dibromoethane	ND	1.0	ug/L						



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	------

Batch 6050503 - EPA 5030B

Blank (6050503-BLK1)

Prepared & Analyzed: 05/20/16

Dibromomethane	ND	10	ug/L							
1,2-Dichlorobenzene	ND	5.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
trans-1,4-Dichloro-2-butene	ND	100	ug/L							
1,1-Dichloroethane	ND	5.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	5.0	ug/L							
cis-1,2-Dichloroethene	ND	5.0	ug/L							
trans-1,2-Dichloroethene	ND	5.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	1.0	ug/L							
trans-1,3-Dichloropropene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Iodomethane	ND	10	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	50	ug/L							
Methylene Chloride	ND	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L							
Styrene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 6050503 - EPA 5030B										
Blank (6050503-BLK1)										
1,2,3-Trichloropropane	ND	1.0	ug/L							
Vinyl Acetate	ND	50	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylenes, total	ND	4.0	ug/L							
<i>Surr: Dibromofluoromethane</i>	47		ug/L	50.000		94	80-120			
<i>Surr: 1,2-Dichloroethane-d4</i>	51		ug/L	50.000		101	78-120			
<i>Surr: Toluene-d8</i>	51		ug/L	50.000		103	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	53		ug/L	50.000		105	80-120			
LCS (6050503-BS1)										
Benzene	52		ug/L	50.000		104	67-134			
Chlorobenzene	55		ug/L	50.000		109	69-122			
1,1-Dichloroethene	53		ug/L	50.000		105	58-142			
Toluene	51		ug/L	50.000		101	68-127			
Trichloroethene	53		ug/L	50.000		106	72-132			
<i>Surr: Dibromofluoromethane</i>	47		ug/L	50.000		94	80-120			
<i>Surr: 1,2-Dichloroethane-d4</i>	51		ug/L	50.000		101	78-120			
<i>Surr: Toluene-d8</i>	51		ug/L	50.000		103	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	53		ug/L	50.000		106	80-120			
Matrix Spike (6050503-MS1)										
	Source: AZE0540-10					Prepared & Analyzed: 05/20/16				
Benzene	51		ug/L	50.000	ND	103	67-134			
Chlorobenzene	52		ug/L	50.000	ND	104	69-122			
1,1-Dichloroethene	51		ug/L	50.000	ND	103	58-142			
Toluene	50		ug/L	50.000	ND	100	68-127			



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 6050503 - EPA 5030B										
Matrix Spike (6050503-MS1)										
Source: AZE0540-10 Prepared & Analyzed: 05/20/16										
Trichloroethene	53	ug/L	50.000	ND	105	72-132				
<i>Surr: Dibromofluoromethane</i>	46	ug/L	50.000		93	80-120				
<i>Surr: 1,2-Dichloroethane-d4</i>	51	ug/L	50.000		102	78-120				
<i>Surr: Toluene-d8</i>	51	ug/L	50.000		102	80-120				
<i>Surr: 4-Bromofluorobenzene</i>	53	ug/L	50.000		105	80-120				
Matrix Spike Dup (6050503-MSD1)										
Source: AZE0540-10 Prepared & Analyzed: 05/20/16										
Benzene	51	ug/L	50.000	ND	102	67-134	0.9	9		
Chlorobenzene	51	ug/L	50.000	ND	103	69-122	0.7	13		
1,1-Dichloroethene	51	ug/L	50.000	ND	102	58-142	0.4	9		
Toluene	49	ug/L	50.000	ND	99	68-127	1	9		
Trichloroethene	52	ug/L	50.000	ND	105	72-132	0.8	11		
<i>Surr: Dibromofluoromethane</i>	47	ug/L	50.000		93	80-120				
<i>Surr: 1,2-Dichloroethane-d4</i>	52	ug/L	50.000		104	78-120				
<i>Surr: Toluene-d8</i>	51	ug/L	50.000		102	80-120				
<i>Surr: 4-Bromofluorobenzene</i>	54	ug/L	50.000		107	80-120				



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Laboratory Certifications

Code	Description	Number	Expires
LA	Louisiana	02069	06/30/2016
NC	North Carolina	381	12/31/2016
NELAC	FL DOH (Non-Pot. Water, Solids) Eff:: 07/01/2015	E87315	06/30/2016
NELDW	FL DOH NELAC (Drinking Water) Eff: 07/01/2015	E87315	06/30/2016
SC	South Carolina	98011001	06/30/2016
TX	Texas	T104704397-08-TX	03/31/2017
VA	Virginia	1340	12/14/2016



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

Legend

Definition of Laboratory Terms

ND - Not Detected at levels greater than or equal to SWSL/RL

SWSL/RL - NC DENR Solid Waste Section LImit/Reporting Limit (Adjusted for DF/Prep Factor)

DF - Dilution Factor

MDL - Method Detection Limit

Qualifiers

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD and/or PDS due to suspected matrix interference. Sample results for the QC batch were accepted based on acceptable LCS recoveries.

QM-02 The spike recovery is outside acceptance limits due to insignificant spike amount as compared to sample concentration.

J Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).

> Greater than the result value reported.

Note: Unless otherwise noted, all results are reported on an as received basis.



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
(770) 734-4200 FAX (770) 734-4201 www.aslab.com



CHAIN OF CUSTODY RECORD

CLIENT NAME	ANALYSIS REQUESTED										REMARKS/ADDITIONAL INFORMATION
	CONTAINER#	V	P	A	P	V	P	A	G	A/V	
Camp Dresser & McKee - Raleigh	1	3	7	7	1	2	5	7	7	B	
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 5400 Glenwood Ave. Raleigh NC 27612 919/877-5820	#of									A	
ATTENTION: Mr. Mat Colone	CC:									B	
REQUESTED COMPLETION DATE:	PO #:									C	
PROJECT NAME/STATE: CABARRUS CO LANDFILL UNIT										D	
PROJECT #: _____										E	
DATE	TIME	MATRIX CODE*	G	O	R	SAMPLE IDENTIFICATION				F	
5/7/16 05:59 AM	X	1302 CO-1-S				14	3	1	X	G	
5/7/16 01:14 AM	X	1302 CO-1-d				5	3	1		H	
5/6/16 05:56 AM	X	1302 MN-5				3				I	
5/7/16 05:20 AM	X	1 st L ²				1				J	
5/6/16 05:24 AM	X	1302 MN-7				3				K	
5/7/16 05:04 AM	X	L ²				1				L	
5/6/16 05:00 AM	X	1302 MN-8A				3				M	
5/7/16 04:56 AM	X	L ²				1				N	
5/6/16 04:52 AM	X	1302 MN-10				3				O	
5/7/16 04:50 AM	X	L ²				1				P	
5/7/16 04:48 AM	X	1302 MN-11				3				Q	
5/7/16 04:46 AM	X	L ²				1				R	
5/7/16 04:44 AM	X	1302 MN-12				3				S	
5/7/16 04:42 AM	X	L ²				1				T	
5/7/16 04:40 AM	X	1302 MN-13				3				U	
5/7/16 04:38 AM	X	L ²				1				V	
5/7/16 04:36 AM	X	1302 MN-14				3				W	
5/7/16 04:34 AM	X	L ²				1				X	
5/7/16 04:32 AM	X	1302 MN-15				3				Y	
5/7/16 04:30 AM	X	L ²				1				Z	
5/7/16 04:28 AM	X	1302 MN-16				3				A	
5/7/16 04:26 AM	X	L ²				1				B	
5/7/16 04:24 AM	X	1302 MN-17				3				C	
5/7/16 04:22 AM	X	L ²				1				D	
5/7/16 04:20 AM	X	1302 MN-18				3				E	
5/7/16 04:18 AM	X	L ²				1				F	
5/7/16 04:16 AM	X	1302 MN-19				3				G	
5/7/16 04:14 AM	X	L ²				1				H	
5/7/16 04:12 AM	X	1302 MN-20				3				I	
5/7/16 04:10 AM	X	L ²				1				J	
5/7/16 04:08 AM	X	1302 MN-21				3				K	
5/7/16 04:06 AM	X	L ²				1				L	
5/7/16 04:04 AM	X	1302 MN-22				3				M	
5/7/16 04:02 AM	X	L ²				1				N	
5/7/16 04:00 AM	X	1302 MN-23				3				O	
5/7/16 03:58 AM	X	L ²				1				P	
5/7/16 03:56 AM	X	1302 MN-24				3				Q	
5/7/16 03:54 AM	X	L ²				1				R	
5/7/16 03:52 AM	X	1302 MN-25				3				S	
5/7/16 03:50 AM	X	L ²				1				T	
5/7/16 03:48 AM	X	1302 MN-26				3				U	
5/7/16 03:46 AM	X	L ²				1				V	
5/7/16 03:44 AM	X	1302 MN-27				3				W	
5/7/16 03:42 AM	X	L ²				1				X	
5/7/16 03:40 AM	X	1302 MN-28				3				Y	
5/7/16 03:38 AM	X	L ²				1				Z	
5/7/16 03:36 AM	X	1302 MN-29				3				A	
5/7/16 03:34 AM	X	L ²				1				B	
5/7/16 03:32 AM	X	1302 MN-30				3				C	
5/7/16 03:30 AM	X	L ²				1				D	
5/7/16 03:28 AM	X	1302 MN-31				3				E	
5/7/16 03:26 AM	X	L ²				1				F	
5/7/16 03:24 AM	X	1302 MN-32				3				G	
5/7/16 03:22 AM	X	L ²				1				H	
5/7/16 03:20 AM	X	1302 MN-33				3				I	
5/7/16 03:18 AM	X	L ²				1				J	
5/7/16 03:16 AM	X	1302 MN-34				3				K	
5/7/16 03:14 AM	X	L ²				1				L	
5/7/16 03:12 AM	X	1302 MN-35				3				M	
5/7/16 03:10 AM	X	L ²				1				N	
5/7/16 03:08 AM	X	1302 MN-36				3				O	
5/7/16 03:06 AM	X	L ²				1				P	
5/7/16 03:04 AM	X	1302 MN-37				3				Q	
5/7/16 03:02 AM	X	L ²				1				R	
5/7/16 03:00 AM	X	1302 MN-38				3				S	
5/7/16 02:58 AM	X	L ²				1				T	
5/7/16 02:56 AM	X	1302 MN-39				3				U	
5/7/16 02:54 AM	X	L ²				1				V	
5/7/16 02:52 AM	X	1302 MN-40				3				W	
5/7/16 02:50 AM	X	L ²				1				X	
5/7/16 02:48 AM	X	1302 MN-41				3				Y	
5/7/16 02:46 AM	X	L ²				1				Z	
5/7/16 02:44 AM	X	1302 MN-42				3				A	
5/7/16 02:42 AM	X	L ²				1				B	
5/7/16 02:40 AM	X	1302 MN-43				3				C	
5/7/16 02:38 AM	X	L ²				1				D	
5/7/16 02:36 AM	X	1302 MN-44				3				E	
5/7/16 02:34 AM	X	L ²				1				F	
5/7/16 02:32 AM	X	1302 MN-45				3				G	
5/7/16 02:30 AM	X	L ²				1				H	
5/7/16 02:28 AM	X	1302 MN-46				3				I	
5/7/16 02:26 AM	X	L ²				1				J	
5/7/16 02:24 AM	X	1302 MN-47				3				K	
5/7/16 02:22 AM	X	L ²				1				L	
5/7/16 02:20 AM	X	1302 MN-48				3				M	
5/7/16 02:18 AM	X	L ²				1				N	
5/7/16 02:16 AM	X	1302 MN-49				3				O	
5/7/16 02:14 AM	X	L ²				1				P	
5/7/16 02:12 AM	X	1302 MN-50				3				Q	
5/7/16 02:10 AM	X	L ²				1				R	
5/7/16 02:08 AM	X	1302 MN-51				3				S	
5/7/16 02:06 AM	X	L ²				1				T	
5/7/16 02:04 AM	X	1302 MN-52				3				U	
5/7/16 02:02 AM	X	L ²				1				V	
5/7/16 02:00 AM	X	1302 MN-53				3				W	
5/7/16 01:58 AM	X	L ²				1				X	
5/7/16 01:56 AM	X	1302 MN-54				3				Y	
5/7/16 01:54 AM	X	L ²				1				Z	
5/7/16 01:52 AM	X	1302 MN-55				3				A	
5/7/16 01:50 AM	X	L ²				1				B	
5/7/16 01:48 AM	X	1302 MN-56				3				C	
5/7/16 01:46 AM	X	L ²				1				D	
5/7/16 01:44 AM	X	1302 MN-57				3				E	
5/7/16 01:42 AM	X	L ²				1				F	
5/7/16 01:40 AM	X	1302 MN-58				3				G	
5/7/16 01:38 AM	X	L ²				1				H	
5/7/16 01:36 AM	X	1302 MN-59				3				I	
5/7/16 01:34 AM	X	L ²				1				J	
5/7/16 01:32 AM	X	1302 MN-60				3				K	
5/7/16 01:30 AM	X	L ²				1				L	
5/7/16 01:28 AM	X	1302 MN-61				3				M	
5/7/16 01:26 AM	X	L ²				1				N	
5/7/16 01:24 AM	X	1302 MN-62				3				O	
5/7/16 01:22 AM	X	L ²				1				P	
5/7/16 01:20 AM	X	1302 MN-63				3				Q	
5/7/16 01:18 AM	X	L ²				1				R	
5/7/16 01:16 AM	X	1302 MN-64				3				S	
5/7/16 01:14 AM	X	L ²				1				T	
5/7/16 01:12 AM	X	1302 MN-65				3				U	
5/7/16 01:10 AM	X	L ²				1				V	
5/7/16 01:08 AM	X	1302 MN-66				3				W	
5/7/16 01:06 AM	X	L ²				1				X	
5/7/16 01:04 AM	X	1302 MN-67				3				Y	
5/7/16 01:02 AM	X	L ²				1				Z	
5/7/16 01:00 AM	X	1302 MN-68				3				A	
5/7/16 00:58 AM	X	L ²				1				B	
5/7/16 00:56 AM	X	1302 MN-69				3				C	
5/7/16 00:54 AM	X	L ²				1				D	
5/7/16 00:52 AM	X	1302 MN-70				3				E	
5/7/16 00:50 AM	X	L ²				1				F	
5/7/16 00:48 AM	X	1302 MN-71				3				G	
5/7/16 00:46 AM	X	L ²				1				H	
5/7/16 00:44 AM	X	1302 MN-72				3				I	
5/7/16 00:42 AM	X	L ²				1				J	
5/7/16 00:40 AM	X	1302 MN-73				3				K	
5/7/16 00:38 AM	X	L ²				1	</td				



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092

(770) 734-4200 FAX (770) 734-4201

Camp Dresser & McKee Inc. - Raleigh
5400 Glenwood Ave., Suite 300
Raleigh NC, 27612

Attention: Mr. Mat Colone

June 09, 2016

250204

ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 • FAX: (770) 734-4201 • www.ashlab.com

CHAIN OF CUSTODY RECORD

PAGE: 2 OF 2

CLIENT NAME:		ANALYSIS REQUESTED		L CONTAINER TYPE		PRESERVATION		
CLIENT ADDRESS/PHONE NUMBER/REF. NUMBER:		TESTING TYPE:	PROBLEMS:	A. PLASTIC	B. AMBER GLASS	C. CLEAR GLASS	D. INO ₃	
		# of		V- VIAL	I- STERILE	G- NaOH, 35°C	H- NaOCl, 35°C	
REPORT TO:		CC:		D- OTHER	S- OTHER	Na ₂ SO ₄ , 35°C	Na ₂ SO ₄ , 5°C	
REQUESTED COMPLETION DATE:		PO #:		7. -35°C ref. frozen				
PROJECT NAME/STATE:		PROJECT #:		N MATRIX CODES				
Carroll Co Landfill Unit				DW - DRINKING WATER	S - SOIL	E WW - WASTEWATER	R - GROUNDWATER	
				SW - SURFACE WATER	SL - SOLID	ST - STORMWATER	A - AIR	
				W - WATER	P - PRODUCT	W - LIQUID		
REMARKS/ADDITIONAL INFORMATION								
5/16/06	0118	SW	X 1302 SW-1	4	3	1	X	15
5/16/06	0111	SW	X 1302 SW-2	4	3	1	X	16
5/16/06	-	W	1302 SW Blank	3	3			17
SAMPLED BY AND TITLE:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:		
F. House				F. House		5/16/06 1505		
RECEIVED BY:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:		
R. P. Hallman		5/16/06 1505		SAMPLE SHIPPED VIA:		LAB #:		
RECEIVED BY:		RELEASING:		COURIER:		CLIENT:		
R. P. Hallman		F. House		UPS		OTHER		
RELEASING:		F. House		Custom Seal:		Cone D:		
No. No. No.		No. No. No.		Initials:		Entered into LIMS: MR		

Rev 8/01/2015-14-149



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST

Printed: 6/9/2016 4:43:03PM

Attn: Mr. Mat Colone

Client: Camp Dresser & McKee Inc. - Raleigh

Project: Cabarrus Co-Unit 1

Date Received: 05/18/16 12:45

Work Order: AZE0544

Logged In By: Mohammad M. Rahman

OBSERVATIONS

#Samples: 17	#Containers: 49
Minimum Temp(C): 4.0	Maximum Temp(C): 4.0
Custody Seal(s) Used: No	

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	NO
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:

The samples were received over 2 days on 05/18/2016 @ 12:45 and 05/19/2016 @ 15:05. MMR

